TOSHIBA

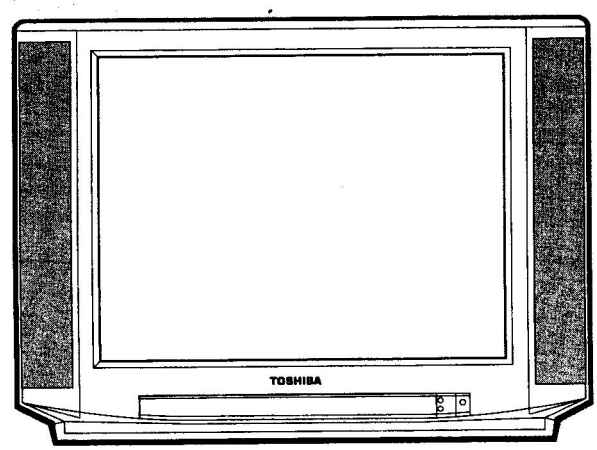
SERVICE MANUAL

COLOUR TELEVISION

C6SS Chassis

2866DD

~2870



Aug., 1996 (So)

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 31.3 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 32.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

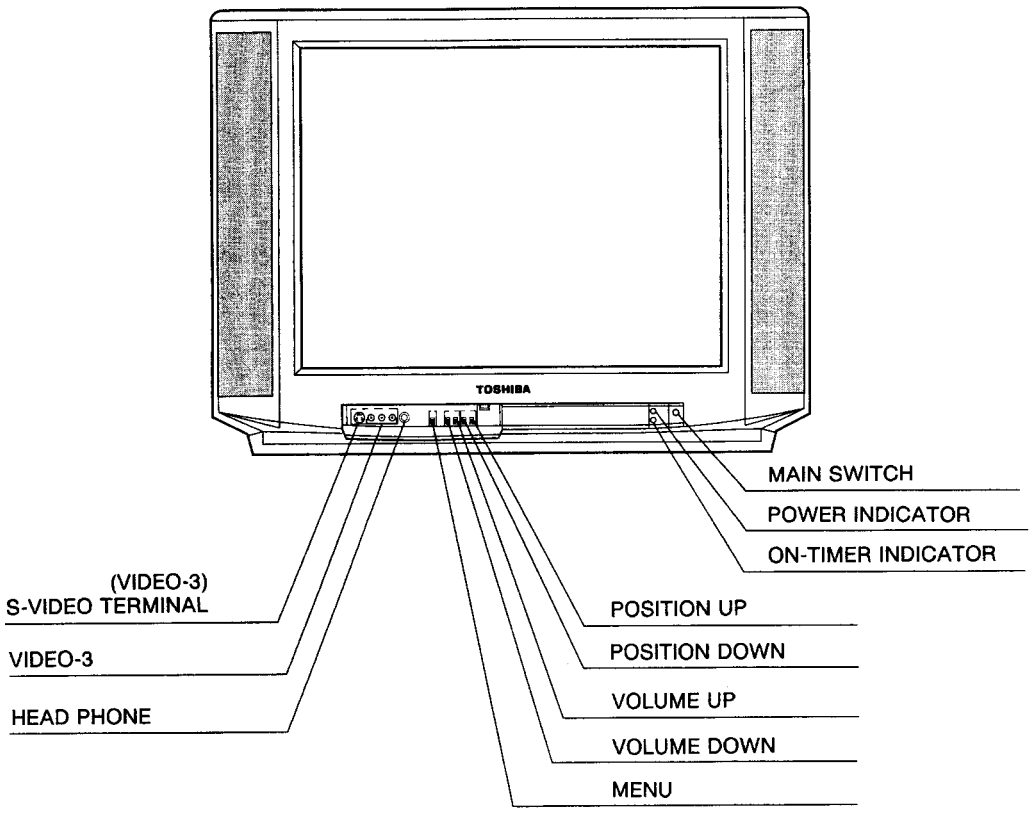
SAFETY PRECAUTION

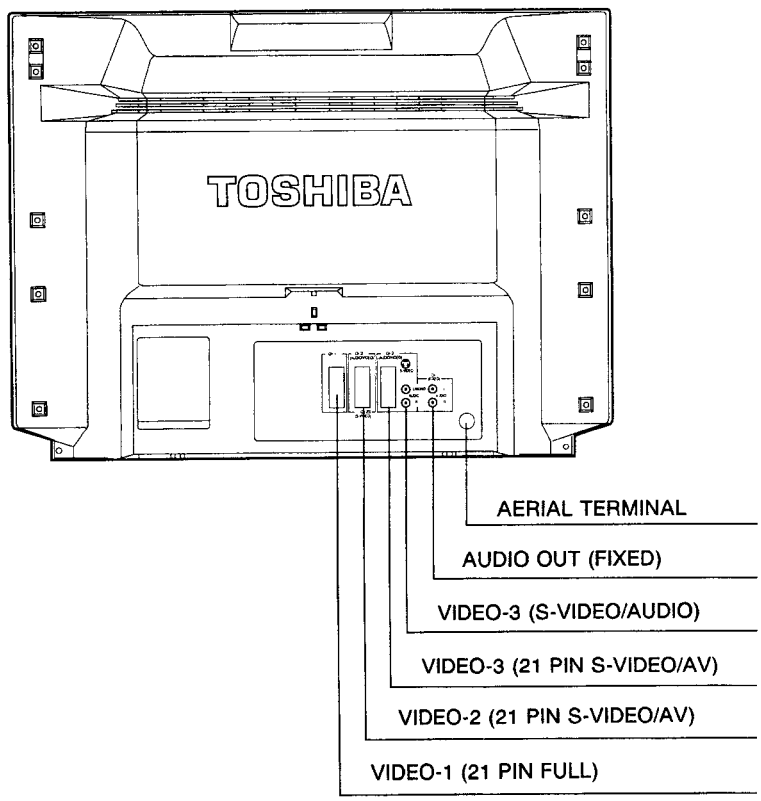
1. This receiver has a nominal working E.H.T. voltage of 28.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

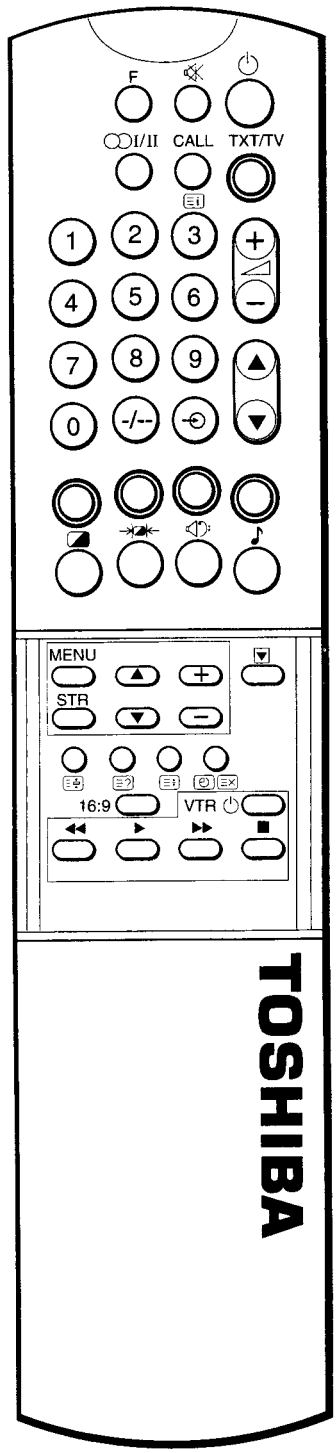
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



CT-9867

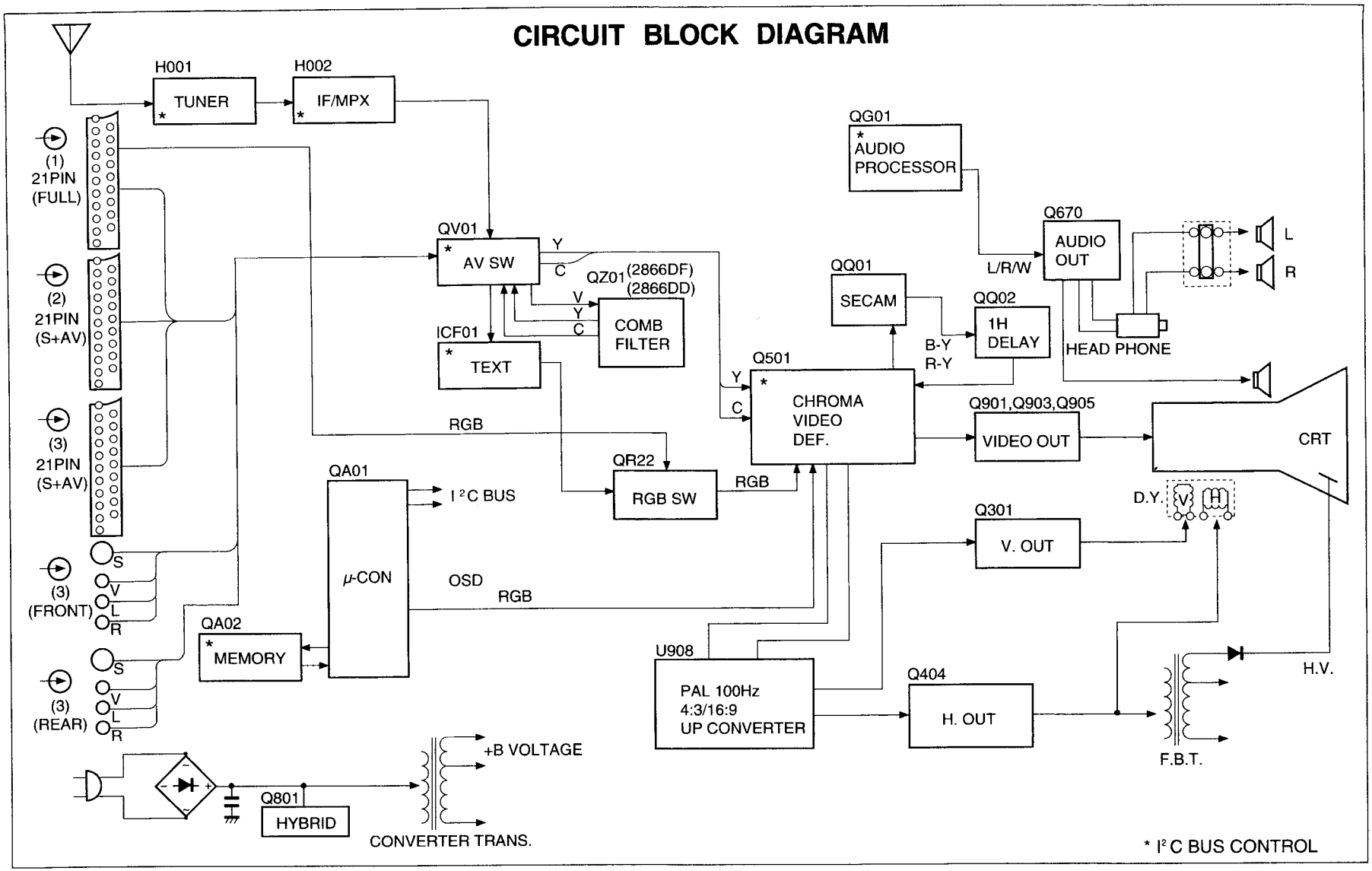
KEY ASSIGNMENT

- ⏻ ..... ON/STAND-BY
- 🔇 ..... Sound mute
- F ..... (Quick/advanced operation)
- CALL (On-screen call)/ (index, initial) ..... TELETEXT MODE
- ◪ ..... PICTURE MENU
- ♪ ..... SOUND MENU
- I/II..... <TV MODE> ····· STEREO BILINGUAL
- 1~9, 0 ... TEN KEY
- - / - - ..... 1 or 2 place
- ⊖ ..... VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
- ◿ ..... VOLUME
- \+ ..... LEVEL PLUS (VOLUME, MENU)
- − ..... LEVEL MINUS (VOLUME, MENU)
- ▲ ..... UP (POSI., CH., TEXT PAGE)
- ▼ ..... DOWN (POSI., CH., TEXT PAGE)
- TELE-TEXT
  - TXT/TV..... TEXT, MIX, TV MODE SW.
  - ..... HOLD
  - ..... <TEXT MODE> ..... REVEAL / CONCEAL
  - ..... <TEXT MODE> ..... F-T-B (FULL, TOP, BOTTOM)
  - ..... TIME DISPLAY (TV MODE) TEXT CLEAR (TEXT MODE)
  - FLOF COLOUR KEY (4 key used) Red/Green/Yellow/Blue
- ..... Super woofer
- ..... Selectable picture
- MENU ..... TUNING & OTHER MENU
- STR..... Store
- / .... Menu select
- / ... Level down/up
- 16:9..... PIC SIZE (Picture size select)

VTR control

- ⏻ Power on/standby
- ▶ Play
- ■ Stop
- ◀◀ Rewind
- ▶▶ Fast forward

CIRCUIT BLOCK DIAGRAM



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 32.0 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 32.0 kV under any conditions.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.,

SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press ✕ button once on Remote Control.

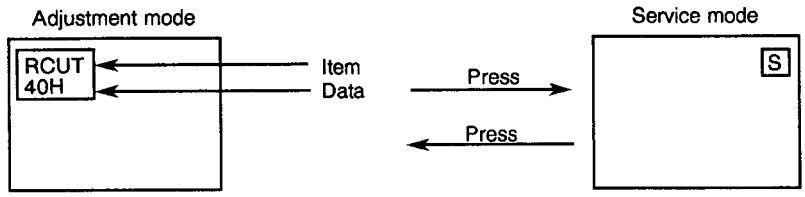
2) Press ✕ button again to keep pressing.

3) Keep pressing the ✕ button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

Press MENU button on TV.



3. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL ▲ button changes the adjustment items in the following order. (▼ button for reverse order.)

4. ADJUSTING THE DATA

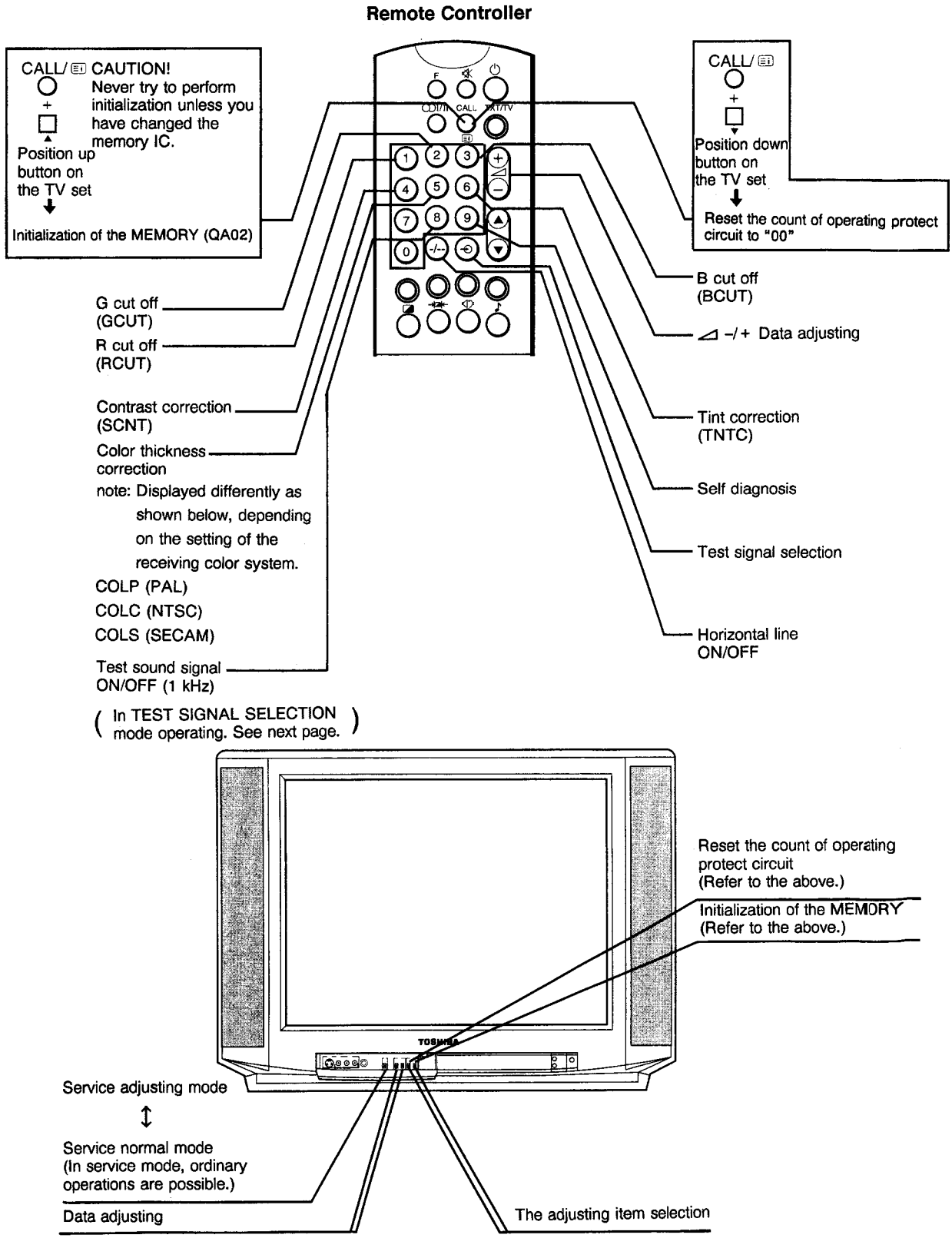
Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00 to FF. The variable range depends on the adjusting item.

5. EXIT FROM SERVICE MODE

Press POWER button to turn off the TV once.

OTHER SERVICE FUNCTION

The following key entry during display of adjustment menu provides special functions.


Remote Controller
CALL/ CAUTION!
Never try to perform initialization unless you have changed the memory IC.
Position up button on the TV set
Initialization of the MEMORY (QA02)
CALL/
Position down button on the TV set
Reset the count of operating protect circuit to "00"
G cut off (GCUT)
R cut off (RCUT)
Contrast correction (SCNT)
Color thickness correction
note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)
Test sound signal ON/OFF (1 kHz)
(In TEST SIGNAL SELECTION mode operating. See next page.)
B cut off (BCUT)
-/+ Data adjusting
Tint correction (TNTC)
Self diagnosis
Test signal selection
Horizontal line ON/OFF
Reset the count of operating protect circuit (Refer to the above.)
Initialization of the MEMORY (Refer to the above.)
Service adjusting mode
Service normal mode (In service mode, ordinary operations are possible.)
Data adjusting
The adjusting item selection

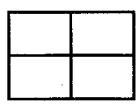
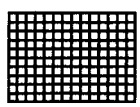
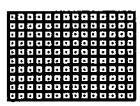
TEST SIGNAL SELECTION

Every pressing of ⊕ button changes the test patterns on screen as described below in SERVICE MODE.

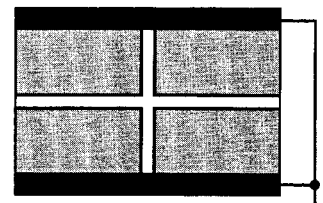
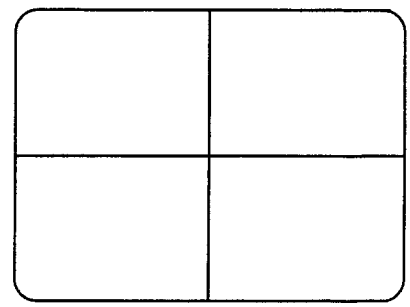
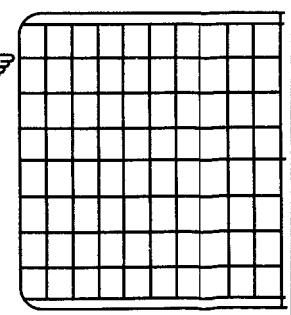
Signal off → NTSC signals (14 patterns)

↑ PAL signals (14 patterns) ←

- About inside signal: The inside signal is output at video input terminal from QA01, and is not output with the pin inserted into terminal. (Single color signal can be output.)

Signals	Picture	Using method
• Red single color • Green single color • Blue single color • Black single color • White single color		Purity and White uniformity of CRT Red single color. . . . Stopping G and B output of Q501 Green single color. . . . Stopping R and B output of Q501 Blue single color. . . . Stopping R and G output of Q501 Black single color. . . . Making black signal of approx. 1Vp-p in QA01 White single color. . . . Making white signal of approx. 1Vp-p in QA01
• W/B adjustment		White balance adjustment White part. . . . White balance adjustment/check in light area Black part. . . . White balance adjustment/check in dark area ※ Making approx. 1Vp-p signal in QA01.
• Black cross-bar • White cross-bar		Picture position (horizontal, vertical and slant) in CRT adjustment ※ Making approx. 1Vp-p signal in QA01.
• Black cross-hatch • White cross-hatch		Convergence and vertical amplitude adjustment ※ Making approx. 1Vp-p signal in QA01.
• Black cross-dot • White cross-dot		Convergence adjustment ※ Making approx. 1Vp-p signal in QA01.
• H signal (Left, right, white) • H signal (Left, right, black)		For checking (of purity drift) of white uniformity of CRT H signal (Left, right, white). . . . Check in light area H signal (Left, right, black). . . . Check in dark area The adjustment will be the best, if the time when unevenness of color in light area occurs, is a little longer than that in dark area. ※ Making approx. 1Vp-p signal in QA01.

SERVICE MODE

ITEM	ADJUSTMENT PROCEDURE
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the address HIT (HEIGHT).	1. Set CONTRAST to "00", and BRIGHTNESS to "50" by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ◿ – / + button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ◿ – / + button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.  Belt of vertical retrace
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◿ – / + buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◿ – / + buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ◿ – / + buttons so that the first bar on cross-hatch signal touches edge of screen. The first ☞ 

ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT • CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) • DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button (see pages 7, 9.). 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to 32, and to set GDRV and BDRV to 20 with VOLUME ◿ – / + buttons. 4. Press -/- - button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of -/- - button provides Horizontal line picture and Normal picture alternately. 5. Press -/- - button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ◿ – / + buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT. Light area check (to show white) Dark area check (to show black)

SELF DIAGNOSTIC FUNCTION

1) Press "9" button on Remote Control during display of adjustment menu.
   The diagnosis will begin to check if interface among IC's are executed properly.
2) During diagnosis, the following displays are shown.

```
⟨SELF CHECK⟩
① 2390 * * * *
② POWER    :  00
③ BUS LINE :  OK
④ BUS CONT :  OK
⑤ BLOCK    :  UV V1 V2
              QV01
```

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----"00" is normal.
When indication is other than "00", overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS LINE CHECK ----"OK" is normal.
"SDA1–GND" means that SDA line is shorted to ground.
"SCL1–GND" means that SCL line is shorted to ground.
"SCL1–SDA1" means that SDA line is shorted to SCL line.
④ BUS CONT ----"OK" is normal.
When indication shows "QOOO NG", the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (⊕ 1)
V2 : VIDEO 2 input mode (⊕ 2)

Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

NOTE: Component which controls character display on screen is QT01 (TELETEXT IC). If this display function fails to operate due to damage in QT01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

ADJUSTMENT PROCEDURE

MODEL NAME : C6SS (PAL-100Hz 4 :3)

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[SCNT]	Sub-contrast	Dynamic mode	Sub-bright signal (PAL-I signal)	Q501#55 (TP501)	1. Adjust the amplitude from the pedestal level to the white peak.	2,3 ± 0,2 Vpp
[BRTC]	Sub-bright center	Dynamic mode	Sub-bright signal	Screen adjustment	1. Adjust the number of black collapsed lines in the sub-bright signal. 2. This adjustment shall be done after the W/B and [SCNT] adjustments.	5 ± 1,5 lines Screen adjustment
[COLP]	Sub-color center PAL	Dynamic mode	Sub-bright signal (PAL)	Q501#55 (TP501)	1. Adjust the B-Y amplitude.	1,35 ± 0,2 Vop
[RCUT] [GCUT] [BCUT] Screen VR [GDRV] [BDRV]	R cut-off G cut-off B cut-off G drive B drive	[RCUT]: 40 [GCUT]: 40 [BCUT]: 40 In the horizontal straight line mode [GDRV]: 40 [BDRV]: 40		Screen adjustment	1. Set each control as shown in the left column. 2. Gradually increase the screen VR until either R, G or B line starts to light up slightly. 3. Determine the screen VR adjustment position here. 4. Gradually increase remaining two screen VRs until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) 5. Exit from the horizontal straight line mode. 6. Using CA100, repeat this adjustment until correct value is set to both the dark and bright parts.	Bright part ($103cd/m^2$) / Dark part ($17cd/m^2$) 7195K-0.005uv / 7695K ± 0uv Screen judgment (CA100)

MODEL NAME : C6SS (PAL-100Hz 4 :3)

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[BELL]	BELL filter		SECAM color bar	QQ01#21 (TPM01)	1. Vary the [BELL] control until the waveform on the synchroscope becomes flat.	100 ± 10%
[SRY]	SECAM R-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	1. Vary the [SRY] control until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40mV
[SBY]	SECAM B-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	1. Vary the [SBY] control until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40mV
[COLS]	Sub-color center SECAM	Dynamic mode	SECAM color bar	Q501#55 (TP501)	1. Adjust the R-Y amplitude. (During this adjustment, apply the picture mute.)	1.75 ± 0.2Vop * (Pedestal to Peak)

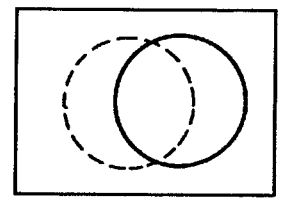
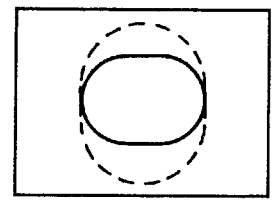
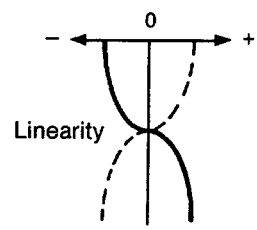
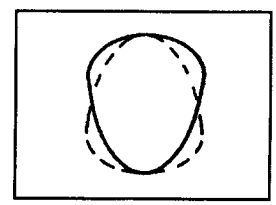
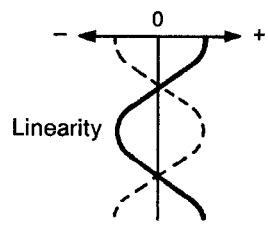
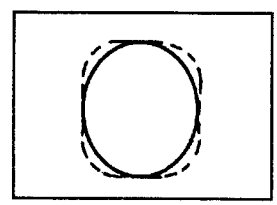
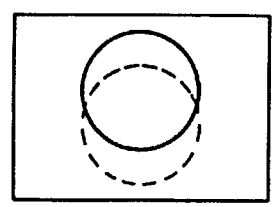
MODEL NAME : C6SS (PAL-100Hz 4 :3)

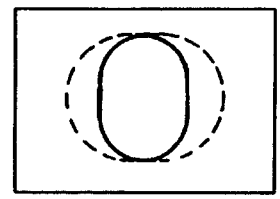
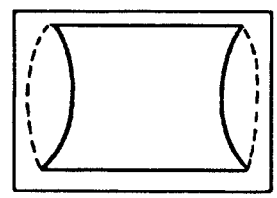
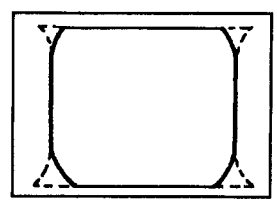
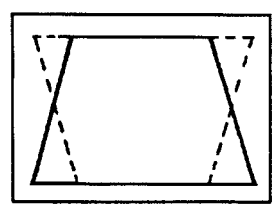
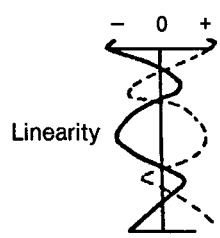
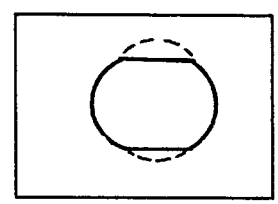
Adjustment Parts	Input point/Output point	Adjustment signal	Adjustment conditions and procedures
: Horizontal amplitude adjustment : Pin-cushion distortion correction amount adjustment : Keystone distortion correction amount adjustment	Visual adjustment with figures on the screen. (Bus control)	WG Philips pattern. Do not use Philips pattern for FRANCE SECAM.	1. Conditions: V. height, VERT position. After H. center adjustment , set the contrast to max., bright to center and color to center. 2. Adjustment procedures a. Adjust the horizontal amplitude by the sub-address WID. ●For French model: Adjust the horizontal amplitude so that the first inner white lines next to the left and right white flag of Philips pattern just disappear behind the frame. ●For other models: adjust the horizontal amplitude so that the left and right white flags of Philips pattern just disappear behind the frame. b. By the sub-address DPC, make the left and right horizontal bar straight. c. By the sub-address KEY, correct the Keystone distortion. d. Again, adjust the sub-address WID.
: HEIGHT	Visual adjustment with figures on the screen. (Bus control)	WG Philips pattern. Do not use Philips pattern for FRANCE SECAM.	1. Conditions: Cont max, Bright cent, Color cent. 2. Adjustment procedure a. By the sub-address HIT, make the top and bottom flags of Philips pattern just disappear behind the frame.
: VERT. POSITION	Visual adjustment with figures on the screen. (Bus control)	WG Philips pattern. Do not use philips pattern for FRANCE SECAM.	1. Conditions Cont max, Bright cent, Color cent. a. Adjust the sub-address VPOS so that the upper and lower positions of the circle of Phillips pattern come to the center of the screen.

MODEL NAME : C6SS (PAL-100Hz 4 :3)

Adjustment Parts	Input point/Output point	Adjustment signal	Adjustment conditions and procedures
: H. CENT (Bus control)	Visual adjustment with figures on the screen.	WG Philips pattern. Do not use Philips pattern for FRANCE SECAM.	1. Conditions: Cont max, Bright cent, Color cent. 2. Adjustment procedure Adjust the sub-address HPOS to adjust the screen center. (Make D-C minimum in the CRT adjustment magnetic field.)
Vertical synchronizing VR adjustment R4350	DEF UNIT (PB6510X-3)	———	1. Supply +12.0v to the HVCC terminal (P402B#AG). 2. Using the frequency counter, adjust the VR so that the frequency at the Q420#24 terminal becomes 93.0 +2.0/–1.0Hz. * When supplying power, connect the power supply GND to all GNDs of the connectors P402B (#AD) and P403B (#BA, BG).
Horizontal synchronizing VR adjustment R4450	DEF UNIT (PB6510X-3)	———	1. Supply +12.0v to the HVCC terminal (P402B#AG). 2. Using the frequency counter, adjust the VR so that the frequency at the Q420#16 terminal becomes 31.36 ± 0.15kHz. * When supplying power, connect the power supply GND to all GNDs of the connectors P402B (#AD) and P403B (#BA, BG).

SUB DATA ADDITIONAL DESCRIPTION

Symbol	Description
HPOS	H screen position correction. 
HIT	V amplitude adjustment. 
VLIN	V linearity correction 1.   Linearity balance between top and bottom screen.
VSC	V linearity correction 2.   Linearity balance between top/bottom and center.
VPOS VPS	V picture position adjustment. 

Symbol	Description
VCP	Setting of amount of V amplitude correction against variation of screen brightness.
WID	H amplitude adjustment. 
PARA	H pin-cushion distortion correction. 
CNR	H pin-cushion distortion correction at four corners. 
TRAP	Pedestal distortion correction. 
HCP	Setting of amount of H amplitude correction against variation of screen brightness.
VFC	V linearity correction. Linearity balance at 1/4, 3/4 areas from top.  

MULTI BUS E2PROM ADDRESS, ADJUSTING ADDRESS TABLE

Adjusting method	QA02 memory address	Name of Item	Value of initializing QA02 (Hexa-decimal)	Adjustments
F	03H	RCUT	40H	R CUTOFF (B/W)
↓	04H	GCUT	40H	G CUTOFF (B/W)
↓	05H	BCUT	40H	B CUTOFF (B/W)
↓	06H	GDRV	40H	G DRIVE
↓	07H	BDRV	40H	B DRIVE
S	08H	CNTX	7FH	SUB CONTRAST MAX (4:3 MODE)
F	09H	BRTC	80H	SUB BRIGHT CEN
S	0AH	COLC	42H	SUB COLOR CEN NTSC
S	0BH	TNTC	40H	SUB TINT CEN
F	0CH	COLP	42H	SUB COLOR CEN PAL
F	0DH	COLS	32H	SUB COLOR CEN SECAM
S	0EH	SCOL	07H	SUB COLOR
F	0FH	SCNT	12H	SUB CONTRAST
↓	3AH	VOLS	00H	VOL SCART
↓	3BH	FVOL	00H	FM VOL PRE SCALE
↓	3CH	NVOL	00H	NICAM VOL PRE SCALE
↓	3DH	NICL	00H	NICAM THRESHOLD LEVEL
↓	3EH	NICH	00H	NICAM THRESHOLD LEVEL
↓	3FH	IDL	00H	IGR THRESHOLD LEVEL
↓	40H	IDH	00H	IGR THRESHOLD LEVEL
S	2FH	EVOL	00H	EXT PRE. VOLUME
↓	42H	EMX	FCH	NICAM ON LEVEL
↓	43H	EMN	64H	NICAM OFF LEVEL
↓	44H	FMA	00H	FM ATTENUATOR LEVEL
S	45H	STS	00H	STEREO SEPARATION
F	49H	HPOS	15H	50Hz H-POSITION
↓	4AH	VPOS	03H	V-POSITION
↓	4BH	HIT	40H	HEIGHT
↓	4EH	VLIN	17H	V-LINEARITY
S	4FH	VSC	19H	V-S CORRECTION
↓	50H	VPS	0DH	V-SHIFT
↓	51H	VCP	0AH	V-COMPENSATION
F	52H	WID	0FH	PICTURE WIDTH
↓	53H	PARA	2AH	E-W PARABOLA
↓	54H	CNR	06H	E-W CORNER
↓	55H	TRAP	1FH	TRAPEZIUM
↓	56H	HCP	02H	H-COMPENSATION
S	57H	VFC	0FH	V-F CORRECTION
↓	C6H	BELL	80H	SECAM BELL FILTER
↓	C7H	SRY	08H	SECAM R-Y
↓	CBH	SBY	08H	SECAM B-Y

S ... semi-fixed data area which is fixed by model. (Do not adjust in field service.)

F ... This item may require adjustments by models after initialization, when QA02 is replaced.

ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

EXIT FROM SERVICE MODE

1) Press POWER button to turn off the TV once.

INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲button on the TV. The initialization of QA02 has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform "AUTO search memory " on the owner's manual.

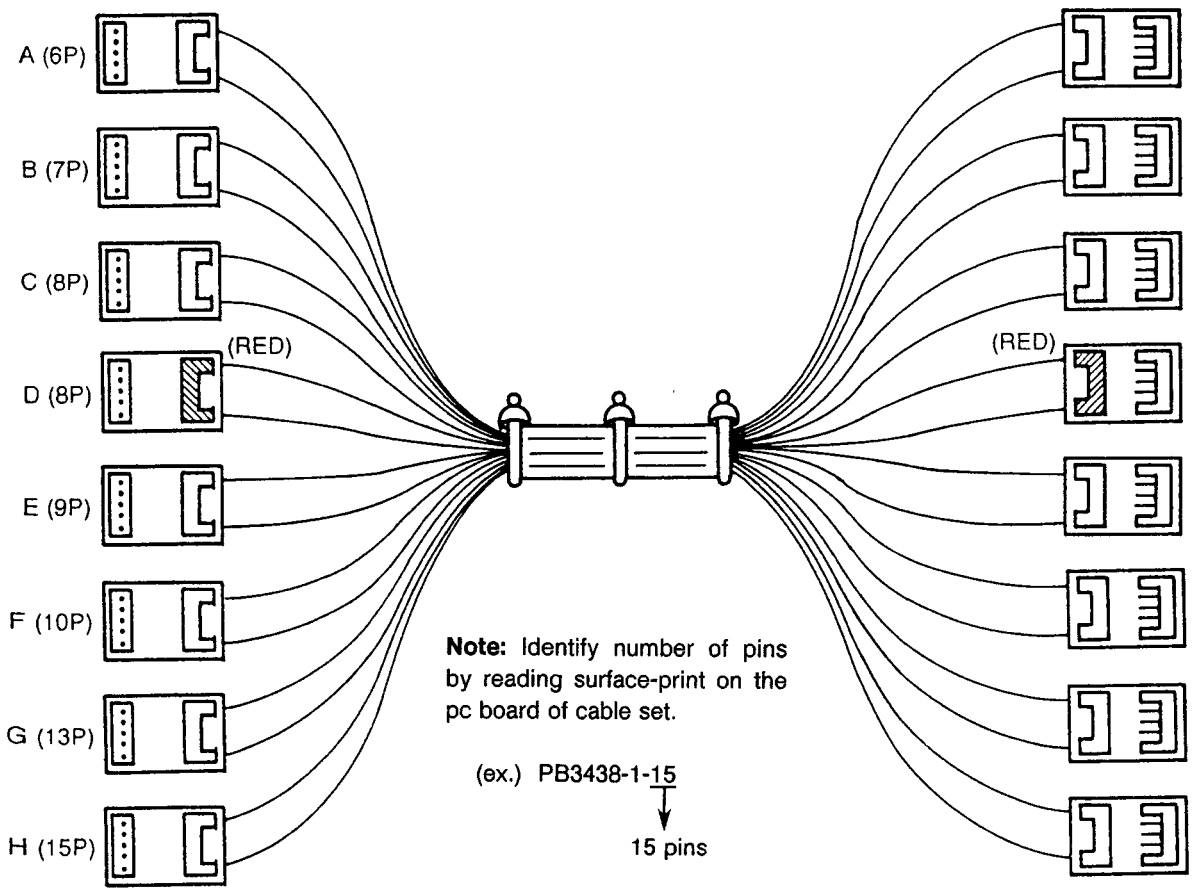
CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

EXTENSION CABLE SET

1. Extension Cable Set is available for servicing modules.
   For C6SS chassis, however, this cable is used only for TELETEXT and DIGITAL COMB FILTER modules.
   (See reference table on next page.)

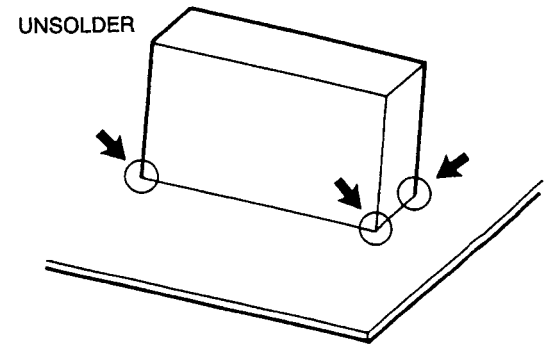
2. Identify number of pins by reading surface-print on the pc board of cable set.

Part No.	Description
23305270	Extension Cable Set

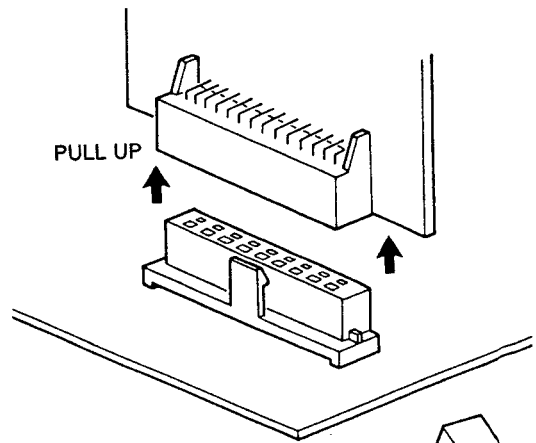


TO USE THE CABLE SET

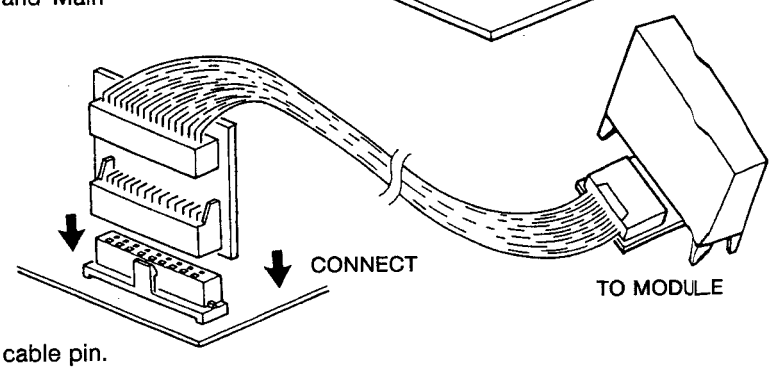
1. Unsolder corners on shielding case of module, which are marked with arrow in the figure.



2. Remove shielding case, and pull up module to disconnect.



3. Connect Extension Cable Set to module and Main board.

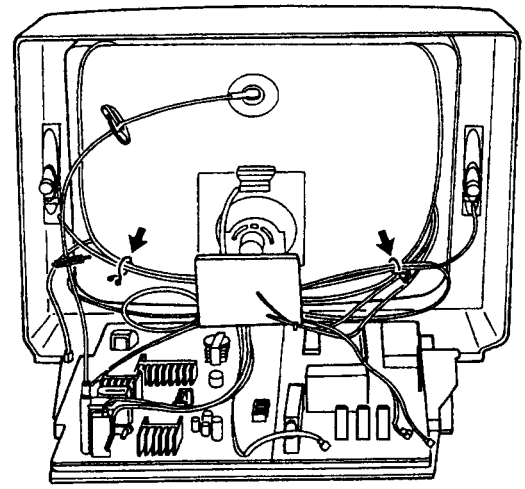


4. Reference chart of module and extension cable pin.

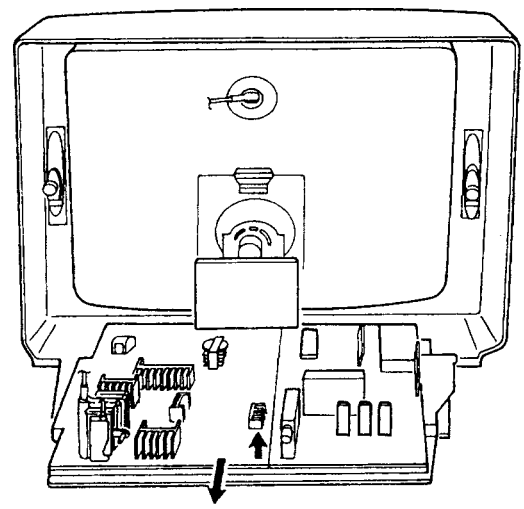
Board name	FRANCE	GERMANY	Remarks
TELETEXT	15P 7P	15P 7P	
DIGITAL COMB FILTER	10P	10P	SECAM/1H DELAY circuit can not be used because of 11 pin connector.

HOW TO MAKE THE CHASSIS STAND FOR REPAIR

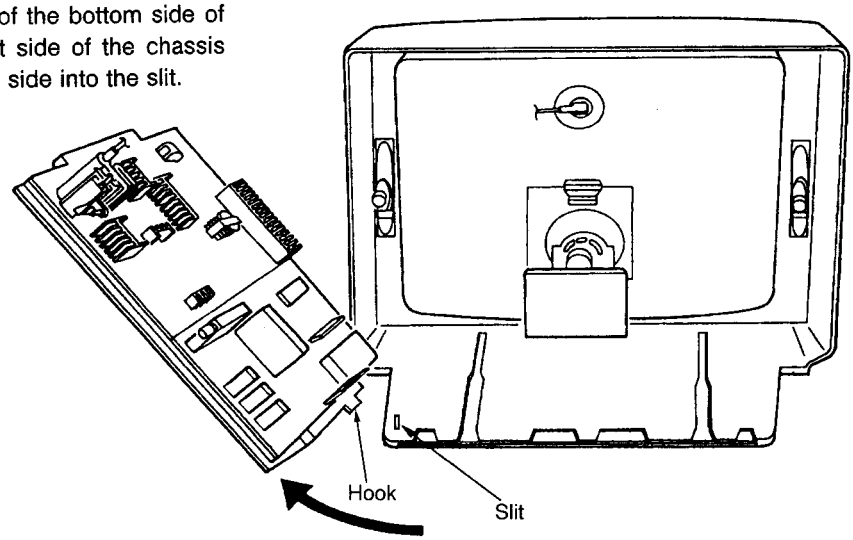
1. Disconnect the lead wires for the speaker fixed to the degausser coil with three omega clips.



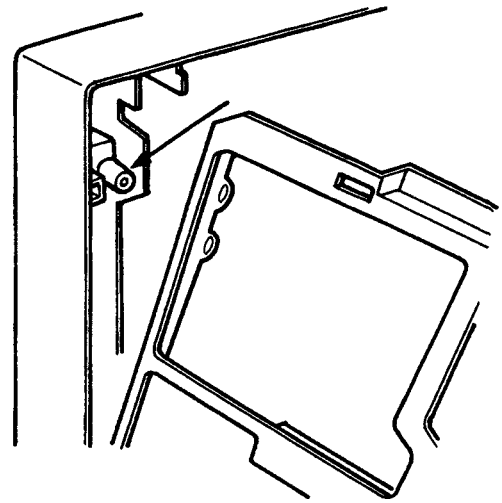
2. Lifting up slightly, pull out the chassis from the front mask.



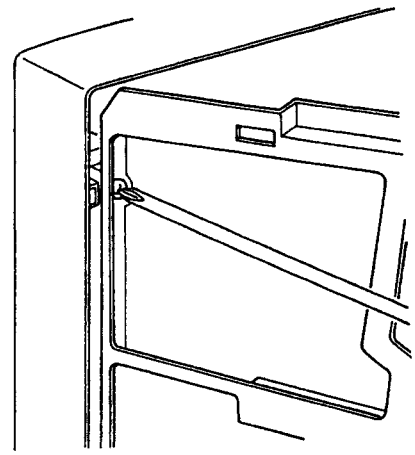
3. There is a slit at the left front of the bottom side of the front mask. Lift up the left side of the chassis and insert the hook at the right side into the slit.



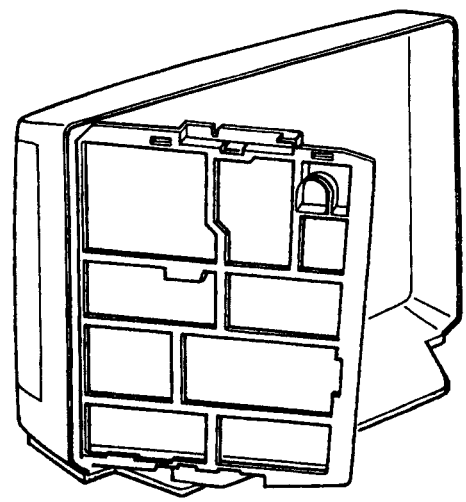
4. To retain the chassis, use the upper left boss (highest boss) which is marked with No. 29.



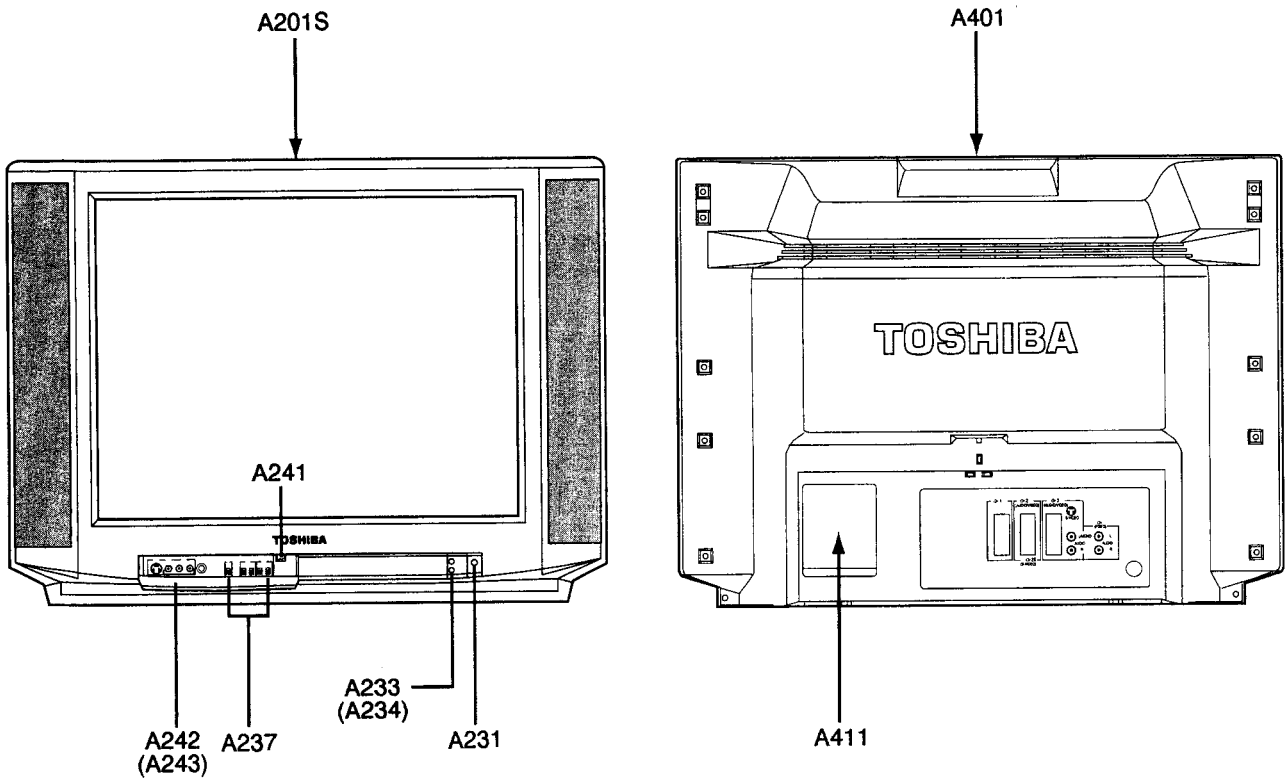
5. Fix it with screws for back cover fixing.
   Upper hole of the chassis frame.



6. After repair works, restore the unit by reversing the above steps.



CABINET REPLACEMENT PARTS LIST



Location No.	Part No.	Description
A201S	23510020	Front Cover
A231	23444902	Button, Power
A233	23430336	Lens, RMT
A234	23430323	Piece (LED)
A237	23443966	Button, Control
A239	23460802	Trim, Control
A241	70368125	Push Catch for Door
A242	23426957	Door
A243	23421759	Piece (Decorative)
A401	23426393	Back Cover
A411	23560040	Label, Model No.
A420	23460806	Trim, Back Terminal

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols " ⚠ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors.....	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors.....	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24797229	EL, 2.2μF, ±20%, 50V
C102	24763221	EL, 220μF, ±20%, 16V
C103	24232103	CD, 0.01μF, +80%, -20%
C104	24794470	EL, 47μF, ±20%, 16V
C105	24212102	CD, 1000pF, ±10%
C106	24797100	EL, 10μF, ±20%, 50V
C107	24763221	EL, 220μF, ±20%, 16V
C108	24763101	EL, 100μF, ±20%, 16V
C109	24232103	CD, 0.01μF, +80%, -20%
C115	24232103	CD, 0.01μF, +80%, -20%
C116	24763221	EL, 220μF, ±20%, 16V
C201	24206100	EL, 10μF, 50V
C203	24538104	PF, 0.1μF
C204	24206010	EL, 1μF, 50V
C205	24206229	EL, 2.2μF, 50V
C206	24206108	EL, 0.1μF, 50V
C207	24436100	CD, 10pF, ±0.25pF
C208	24436100	CD, 10pF, ±0.25pF
C209	24436100	CD, 10pF, ±0.25pF
C212	24794100	EL, 10μF, ±20%, 16V
C214	24538104	PF, 0.1μF
C215	24436101	CD, 100pF
C216	24436101	CD, 100pF
C218	24436390	CD, 39pF
C240	24797100	EL, 10μF, ±20%, 50V
C303	24214471	CD, 470pF, ±10%, 500V
C304	24693473	PF, 0.047μF, 100V
C305	24617912	EL, 2.2μF, ±10%, 50V
C306	24073059	EL, 3300μF, ±20%, 25V
C307	24793101	EL, 100μF, ±20%, 10V
C308	24668221	EL, 220μF, ±20%, 35V
C309	24668101	EL, 100μF, ±20%, 35V
C310	24796222	EL, 2200μF, ±20%, 35V
C311	24538473	PF, 0.047μF
C312	24591273	PF, 0.027μF
C313	24082058	PF, 0.27μF, 100V
C314	24212102	CD, 1000pF, ±10%
C315	24797229	EL, 2.2μF, ±20%, 50V
C316	24539104	PF, 0.1μF
C318	24666101	EL, 100μF, ±20%, 16V

Location No.	Part No.	Description
C319	24212102	CD, 1000pF, ±10%
C321	24591203	PF, 0.02μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24538224	PF, 0.22μF
C324	24538683	PF, 0.068μF
C326	24591682	PF, 6800pF
C327	24617787	EL, 470μF, ±20%, 16V
C328	24232103	CD, 0.01μF, +80%, -20%
C341	24797478	EL, 0.47μF, ±20%, 50V
C366	24693473	PF, 0.047μF, 100V
C370	24794101	EL, 100μF, ±20%, 16V
C371	24794100	EL, 10μF, ±20%, 16V
C401	24538104	PF, 0.1μF
C403	24591203	PF, 0.02μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C406	24214121	CD, 120pF, ±10%, 500V
C410	24092341	CD, 470pF, ±10%, 2kV
C413	24214332	CD, 3300pF, ±10%, 500V
C416	24668101	EL, 100μF, ±20%, 35V
C417	24214391	CD, 390pF, ±10%, 500V
C419	24212102	CD, 1000pF, ±10%
C420	24666101	EL, 100μF, ±20%, 16V
C421	24539104	PF, 0.1μF
C423	24829473	PF, 0.047μF, 400V
C430	24232103	CD, 0.01μF, +80%, -20%
C431	24763471	EL, 470μF, ±20%, 16V
C439	24082830	PF, 3000pF, ±3%, 1800V
C440	24082830	PF, 3000pF, ±3%, 1800V
C442	24082642	PF, 0.16μF, 400V
C443	24082644	PF, 0.2μF, 400V
C444	24082827	PF, 2200pF, ±3%, 1800V
C445	24828473	PF, 0.047μF, 200V
C446	24679330	EL, 33μF, ±20%, 250V
C448	24640908	EL, 33μF, ±20%, 160V
C460	24796331	EL, 330μF, ±20%, 35V
C461	24082827	PF, 2200pF, ±3%, 1800V
C462	24796222	EL, 2200μF, ±20%, 35V
C463	24212392	CD, 3900pF, ±10%
C464	24640900	EL, 4.7μF, ±20%, 100V
C465	24591683	PF, 0.068μF
C466	24095884	PF, 0.013μF, 630V

Location No.	Part No.	Description
C467	24668470	EL, 47μF, ±20%, 35V
C468	24668100	EL, 10μF, ±20%, 35V
C469	24092337	CD, 220pF, ±10%, 2kV
C470	24794220	EL, 22μF, ±20%, 16V
C472	24538474	PF, 0.47μF
C473	24669010	EL, 1μF, ±20%, 50V
C475	24095887	PF, 0.01μF, ±3%, 630V
C477	24590563	PF, 0.056μF
C478	24590563	PF, 0.056μF
C481	24538104	PF, 0.1μF
C482	24214102	CD, 1000pF, ±10%, 500V
C483	24591124	PF, 0.12μF
C491	24082749	PF, 1.5μF, 250V
C492	24082645	PF, 0.22μF, 400V
C494	24082644	PF, 0.2μF, 400V
C495	24092343	CD, 680pF, ±10%, 2kV
C496	24092343	CD, 680pF, ±10%, 2kV
C501	24232103	CD, 0.01μF, +80%, −20%
C502	24232103	CD, 0.01μF, +80%, −20%
C503	24763101	EL, 100μF, ±20%, 16V
C504	24591222	PF, 2200pF
C505	24353120	CD, 12pF
C507	24353120	CD, 12pF
C508	24206100	EL, 10μF, 50V
C509	24763101	EL, 100μF, ±20%, 16V
C510	24763101	EL, 100μF, ±20%, 16V
C511	24232103	CD, 0.01μF, +80%, −20%
C512	24206228	EL, 0.22μF, 50V
C513	24232103	CD, 0.01μF, +80%, −20%
C514	24538104	PF, 0.1μF
C515	24538104	PF, 0.1μF
C516	24212102	CD, 1000pF, ±10%
C517	24353010	CD, 1pF, ±0.25pF
C519	24353010	CD, 1pF, ±0.25pF
C520	24212102	CD, 1000pF, ±10%
C521	24212102	CD, 1000pF, ±10%
C522	24436470	CD, 47pF
C523	24436470	CD, 47pF
C524	24436561	CD, 560pF
C525	24353181	CD, 180pF
C526	24436101	CD, 100pF
C613	24794470	EL, 47μF, ±20%, 16V
C660	24206229	EL, 2.2μF, 50V
C661	24538104	PF, 0.1μF
C664	24203100	EL, 10μF, ±20%, 16V
C665	24206229	EL, 2.2μF, 50V
C666	24206229	EL, 2.2μF, 50V
C667	24212102	CD, 1000pF, ±10%
C668	24212102	CD, 1000pF, ±10%
C669	24668330	EL, 33μF, ±20%, 35V
C670	24668330	EL, 33μF, ±20%, 35V
C671	24797010	EL, 1μF, ±20%, 50V
C673(U904)	24474102	CD, 1000pF, ±10%
C673(U902A)	24797010	EL, 1μF, ±20%, 50V
C674(U902A)	24797010	EL, 1μF, ±20%, 50V
C674(U904)	24474102	CD, 1000pF, ±10%
C675(U902A)	24795470	EL, 47μF, ±20%, 25V
C675(U904)	24474102	CD, 1000pF, ±10%
C676(U902A)	24797479	EL, 4.7μF, ±20%, 50V
C676(U904)	24474102	CD, 1000pF, ±10%
C677	24591102	PF, 1000pF
C678(U902A)	24591102	PF, 1000pF
C678(U904)	24474102	CD, 1000pF, ±10%
C679(U902A)	24538104	PF, 0.1μF

Location No.	Part No.	Description
C679(U904)	24474102	CD, 1000pF, ±10%
C680	24668102	EL, 1000μF, ±20%, 35V
C681(U902A)	24668471	EL, 470μF, ±20%, 35V
C681(U904)	24474102	CD, 1000pF, ±10%
C682(U902A)	24668471	EL, 470μF, ±20%, 35V
C682(U904)	24474102	CD, 1000pF, ±10%
C683	24668102	EL, 1000μF, ±20%, 35V
C684	24591124	PF, 0.12μF
C685	24591124	PF, 0.12μF
C686	24591124	PF, 0.12μF
C687	24232103	CD, 0.01μF, +80%, −20%
C688	24203220	EL, 22μF, ±20%, 16V
C704	24232103	CD, 0.01μF, +80%, −20%
C705	24797229	EL, 2.2μF, ±20%, 50V
C707	24794470	EL, 47μF, ±20%, 16V
C712	24666470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24794470	EL, 47μF, ±20%, 16V
C719	24435151	CD, 150pF, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721	24794470	EL, 47μF, ±20%, 16V
⚠C801	24082374	PF, 0.22μF, AC250V
⚠C802	24082374	PF, 0.22μF, AC250V
⚠C805	24092281	CD, 4700pF, ±20%, AC250V
⚠C806	24092281	CD, 4700pF, ±20%, AC250V
C808	24667331	EL, 330μF, ±20%, 25V
C809	24214471	CD, 470pF, ±10%, 500V
C810	24086873	EL, 330μF, ±20%, 400V
⚠C813	24092457	CD, 2200pF, ±20%, AC400V
⚠C814	24092457	CD, 2200pF, ±20%, AC400V
C816	24669221	EL, 220μF, ±20%, 50V
C817	24092341	CD, 470pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22μF, ±20%, 100V
C820	24092343	CD, 680pF, ±10%, 2kV
C821	24214471	CD, 470pF, ±10%, 500V
C829	24590182	PF, 1800pF
C831	24794470	EL, 47μF, ±20%, 16V
C832	24794470	EL, 47μF, ±20%, 16V
C833	24669100	EL, 10μF, ±20%, 50V
C834	24797100	EL, 10μF, ±20%, 50V
C835	24794470	EL, 47μF, ±20%, 16V
C841	24669100	EL, 10μF, ±20%, 50V
C842	24669100	EL, 10μF, ±20%, 50V
C843	24590104	PF, 0.1μF
C846	24590104	PF, 0.1μF
C873	24667470	EL, 47μF, ±20%, 25V
C884	24086916	EL, 330μF, ±20%, 160V
C885	24214471	CD, 470pF, ±10%, 500V
C887	24214471	CD, 470pF, ±10%, 500V
C889	24668222	EL, 2200μF, ±20%, 35V
C892	24667222	EL, 2200μF, ±20%, 25V
C893	24092337	CD, 220pF, ±10%, 2kV
C895	24669470	EL, 47μF, ±20%, 50V
C896	24214471	CD, 470pF, ±10%, 500V
C897	24666332	EL, 3300μF, ±20%, 16V
C898	24212101	CD, 100pF, ±10%
C899	24214471	CD, 470pF, ±10%, 500V
C902	24092353	CD, 4700pF, ±10%, 2kV
C904	24436471	CD, 470pF

Location No.	Part No.	Description
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679220	EL, 22μF, ±20%, 250V
C910	24797478	EL, 0.47μF, ±20%, 50V
C911	24203100	EL, 10μF, ±20%, 16V
C912	24794102	EL, 1000μF, ±20%, 16V
C913	24763102	EL, 1000μF, ±20%, 16V
C914	24212103	CD, 0.01μF, ±10%
C915	24092398	CD, 0.1μF, +80%,-20%
C920	24591104	PF, 0.1μF
C921	24591104	PF, 0.1μF
C930	24214101	CD, 100pF, ±10%, 500V
C931	24214101	CD, 100pF, ±10%, 500V
C4031	24591562	PF, 5600pF
C4041	24797229	EL, 2.2μF, ±20%, 50V
C4301	24797010	EL, 1μF, ±20%, 50V
C4302	24232103	CD, 0.01μF, +80%, -20%
C4303	24591363	PF, 0.036μF
C4304	24591152	PF, 1500pF
C4305	24794101	EL, 100μF, ±20%, 16V
C4306	24232103	CD, 0.01μF, +80%, -20%
C4307	24232103	CD, 0.01μF, +80%, -20%
C4311	24794471	EL, 470μF, ±20%, 16V
C4401	24232103	CD, 0.01μF, +80%, -20%
C4402	24232103	CD, 0.01μF, +80%, -20%
C4403	24501561	PF, 560pF
C4404	24501132	PF, 1300pF
C4405	24797479	EL, 4.7μF, ±20%, 50V
C4406	24232103	CD, 0.01μF, +80%, -20%
C4408	24766229	EL, 2.2μF, ±20%, 50V
C4412	24501132	PF, 1300pF
C4413	24501102	PF, 1000pF
C4414	24232103	CD, 0.01μF, +80%, -20%
C4415	24567474	PF, 0.47μF
C4416	24501161	PF, 160pF
C4417	24590332	PF, 3300pF
C4421	24353330	CD, 33pF
CA13	24212101	CD, 100pF, ±10%
CA30	24212101	CD, 100pF, ±10%
CA33	24232103	CD, 0.01μF, +80%, -20%
CA37	24212101	CD, 100pF, ±10%
CA38	24212101	CD, 100pF, ±10%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, -20%
CA44	24232103	CD, 0.01μF, +80%, -20%
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, -20%
CB01	24794470	EL, 47μF, ±20%, 16V
CC10	24474101	CD, 100pF, ±10%
CF03	24567104	PF, 0.1μF
CF04	24766101	PF, 0.1μF
CF05	24766101	PF, 0.1μF
CF06	24353220	CD, 22pF
CF07	24353220	CD, 22pF
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF
CF10	24206100	EL, 10μF, 50V
CF11	24567104	PF, 0.1μF
CF12	24232103	CD, 0.01μF, +80%, -20%
CF14	24232103	CD, 0.01μF, +80%, -20%
CG01	24538124	PF, 0.12μF
CG02	24538104	PF, 0.1μF
CG03	24590823	PF, 0.082μF
CG04	24797010	EL, 1μF, ±20%, 50V

Location No.	Part No.	Description
CG05	24794220	EL, 22μF, ±20%, 16V
CG07	24797010	EL, 1μF, ±20%, 50V
CG08	24797010	EL, 1μF, ±20%, 50V
CG09	24797010	EL, 1μF, ±20%, 50V
CG10	24232103	CD, 0.01μF, +80%, -20%
CG11	24232103	CD, 0.01μF, +80%, -20%
CG12	24591273	PF, 0.027μF
CG13	24232103	CD, 0.01μF, +80%, -20%
CG14	24794101	EL, 100μF, ±20%, 16V
CG15	24590822	PF, 8200pF
CG16	24797010	EL, 1μF, ±20%, 50V
CG17	24591273	PF, 0.027μF
CG18	24590822	PF, 8200pF
CG21	24590273	PF, 0.027μF
CG22	24797010	EL, 1μF, ±20%, 50V
CG23	24590822	PF, 8200pF
CG24	24797100	EL, 10μF, ±20%, 50V
CG25	24212102	CD, 1000pF, ±10%
CG26	24797100	EL, 10μF, ±20%, 50V
CG27	24797229	EL, 2.2μF, ±20%, 50V
CG28	24797229	EL, 2.2μF, ±20%, 50V
CQ02	24353820	CD, 82pF
CQ03	24212102	CD, 1000pF, ±10%
CQ04	24794100	EL, 10μF, ±20%, 16V
CQ05	24590563	PF, 0.056μF
CQ07	24590203	PF, 0.02μF
CQ08	24590683	PF, 0.068μF
CQ09	24797229	EL, 2.2μF, ±20%, 50V
CQ10	24590223	PF, 0.022μF
CQ11	24797229	EL, 2.2μF, ±20%, 50V
CQ12	24436910	CD, 91pF
CQ13	24590104	PF, 0.1μF
CQ14	24590104	PF, 0.1μF
CQ15	24794101	EL, 100μF, ±20%, 16V
CQ16	24232103	CD, 0.01μF, +80%, -20%
CQ17	24353150	CD, 15pF
CQ18	24436910	CD, 91pF
CQ19	24590103	PF, 0.01μF
CQ20	24538104	PF, 0.1μF
CQ21	24794470	EL, 47μF, ±20%, 16V
CQ22	24232103	CD, 0.01μF, +80%, -20%
CQ23	24538104	PF, 0.1μF
CQ24	24538104	PF, 0.1μF
CQ25	24797100	EL, 10μF, ±20%, 50V
CQ26	24538104	PF, 0.1μF
CQ27	24538104	PF, 0.1μF
CQ28	24797478	EL, 0.47μF, ±20%, 50V
CQ29	24794101	EL, 100μF, ±20%, 16V
CQ30	24232103	CD, 0.01μF, +80%, -20%
CQ31	24797478	EL, 0.47μF, ±20%, 50V
CQ32	24590103	PF, 0.01μF
CQ33	24538104	PF, 0.1μF
CQ34	24538104	PF, 0.1μF
CQ35	24206478	EL, 0.47μF, 50V
CQ36	24206478	EL, 0.47μF, 50V
CQ37	24797010	EL, 1μF, ±20%, 50V
CQ38	24797010	EL, 1μF, ±20%, 50V
CQ39	24797010	EL, 1μF, ±20%, 50V
CQ40	24436910	CD, 91pF
CQ45	24212102	CD, 1000pF, ±10%
CQ46	24212102	CD, 1000pF, ±10%
CR12	24538104	PF, 0.1μF
CR13	24538104	PF, 0.1μF
CR14	24538104	PF, 0.1μF

Location No.	Part No.	Description
CR21	24232103	CD, 0.01μF, +80%, −20%
CR22	24203470	EL, 47μF, ±20%, 16V
CR23	24794101	EL, 100μF, ±20%, 16V
CR24	24794101	EL, 100μF, ±20%, 16V
CR25	24794101	EL, 100μF, ±20%, 16V
CR26	24591223	PF, 0.022μF
CR27	24591223	PF, 0.022μF
CR28	24591223	PF, 0.022μF
CR29	24794100	EL, 10μF, ±20%, 16V
CR30	24591223	PF, 0.022μF
CR31	24591223	PF, 0.022μF
CR32	24591223	PF, 0.022μF
CR33	24232103	CD, 0.01μF, +80%, −20%
CR35	24794470	EL, 47μF, ±20%, 16V
CR36	24232103	CD, 0.01μF, +80%, −20%
CS01	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS02	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS03	24206229	EL, 2.2μF, 50V
CS04	24206229	EL, 2.2μF, 50V
CS05	24206229	EL, 2.2μF, 50V
CS06	24206229	EL, 2.2μF, 50V
CS07	24206229	EL, 2.2μF, 50V
CS08	24206229	EL, 2.2μF, 50V
CS09	24206010	EL, 1μF, 50V
CS12	24474102	CD, 1000pF, ±10%
CS13	24474102	CD, 1000pF, ±10%
CS14	24206100	EL, 10μF, 50V
CS15	24206100	EL, 10μF, 50V
CS17	24666100	EL, 10μF, ±20%, 16V
CS18	24666100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, 50V
CS22	24666100	EL, 10μF, ±20%, 16V
CS23	24666100	EL, 10μF, ±20%, 16V
CV01	24590103	PF, 0.01μF
CV02	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV03	24666100	EL, 10μF, ±20%, 16V
CV04	24666100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, −20%
CV06	24666100	EL, 10μF, ±20%, 16V
CV08	24763102	EL, 1000μF, ±20%, 16V
CV09	24666100	EL, 10μF, ±20%, 16V
CV10	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV11	24436331	CD, 330pF
CV12	24092398	CD, 0.1μF, +80%,−20%
CV13	24232103	CD, 0.01μF, +80%, −20%
CV14	24474102	CD, 1000pF, ±10%
CV15	24474102	CD, 1000pF, ±10%
CV16	24474102	CD, 1000pF, ±10%
CV17	24474102	CD, 1000pF, ±10%
CV18	24474102	CD, 1000pF, ±10%
CV19	24474102	CD, 1000pF, ±10%
CV20	24353330	CD, 33pF
CV23	24666101	EL, 100μF, ±20%, 16V
CV24	24232103	CD, 0.01μF, +80%, −20%
CV25	24763471	EL, 470μF, ±20%, 16V
CV35	24212102	CD, 1000pF, ±10%
CV37	24474102	CD, 1000pF, ±10%
CV39	24666101	EL, 100μF, ±20%, 16V
CV40	24232103	CD, 0.01μF, +80%, −20%
CV42	24206229	EL, 2.2μF, 50V

Location No.	Part No.	Description
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV50	24232103	CD, 0.01μF, +80%, −20%
CV65	24203101	EL, 100μF, ±20%, 16V
CV66	24203101	EL, 100μF, ±20%, 16V
CV67	24763471	EL, 470μF, ±20%, 16V
CV68	24763471	EL, 470μF, ±20%, 16V
CV77	24666100	EL, 10μF, ±20%, 16V
CV80	24232103	CD, 0.01μF, +80%, −20%
CX201	24774100	Chip, 10pF, ±0.5pF, CH
CX202	24774101	Chip, 100pF, CH
CX203	24774101	Chip, 100pF, CH
CX204	24794221	EL, 220μF, ±20%, 16V
CX205	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX207	24774101	Chip, 100pF, CH
CX208	24774271	Chip, 270pF, CH
CX209	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX210	24774101	Chip, 100pF, CH
CX211	24774271	Chip, 270pF, CH
CX212	24665471	EL, 470μF, ±20%, 10V
CX213	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX214	24814103	Chip, 0.01μF, +80%, −20%
CX215	24797479	EL, 4.7μF, ±20%, 50V
CX216	24814103	Chip, 0.01μF, +80%, −20%
CX217	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX218	24797479	EL, 4.7μF, ±20%, 50V
CX219	24092441	Chip, 1μF, +80%, −20%, 16V
CX220	24797479	EL, 4.7μF, ±20%, 50V
CX221	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX222	24092294	Chip, 0.33μF, +80%, −20%, 16V
CX223	24815473	Chip, 0.047μF, 10%
CX224	24665471	EL, 470μF, ±20%, 10V
CX225	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX227	24665471	EL, 470μF, ±20%, 10V
CX228	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX229	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX230	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX231	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX232	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX233	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX235	24665221	EL, 220μF, ±20%, 10V
CX236	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX237	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX238	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX239	24794100	EL, 10μF, ±20%, 16V
CX240	24774560	Chip, 56pF, CH
CX241	24774100	Chip, 10pF, ±0.5pF, CH
CX242	24794100	EL, 10μF, ±20%, 16V
CX243	24774560	Chip, 56pF, CH
CX244	24774100	Chip, 10pF, ±0.5pF, CH
CX245	24794100	EL, 10μF, ±20%, 16V
CX246	24774560	Chip, 56pF, CH
CX247	24774100	Chip, 10pF, ±0.5pF, CH
CX248	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX249	24794221	EL, 220μF, ±20%, 16V
CX252	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX253	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX254	24774120	Chip, 12pF, CH
CX255	24774120	Chip, 12pF, CH
CX256	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX257	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX258	24092293	Chip, 0.1μF, +80%,−20%, 25V
CX259	24092293	Chip, 0.1μF, +80%,−20%, 25V

Location No.	Part No.	Description
CX260	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX261	24092441	Chip, 1μF, +80%,–20%, 16V
CX262	24797010	EL, 1μF, ±20%, 50V
CX263	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX265	24092441	Chip, 1μF, +80%,–20%, 16V
CX266	24794100	EL, 10μF, ±20%, 16V
CX267	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX272	24774470	Chip, 47pF, CH
CX273	24774470	Chip, 47pF, CH
CX277	24774060	Chip, 6pF, ±0.5pF
CX278	24774330	Chip, 33pF
CX279	24774330	Chip, 33pF
CX280	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX301	24781220	Chip, 22pF, SL
CX302	24781820	Chip, 82pF, SL
CX303	24781820	Chip, 82pF, SL
CX304	24781220	Chip, 22pF, SL
CX305	24781220	Chip, 22pF, SL
CX306	24781220	Chip, 22pF, SL
CX307	24794221	EL, 220μF, ±20%, 16V
CX308	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX309	24665471	EL, 470μF, ±20%, 10V
CX310	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX311	24781330	Chip, 33pF, SL
CX312	24781330	Chip, 33pF, SL
CX313	24781221	Chip, 220pF, SL
CX314	24774120	Chip, 12pF, CH
CX315	24781221	Chip, 220pF, SL
CX316	24781221	Chip, 220pF, SL
CX317	24781221	Chip, 220pF, SL
CX318	24781221	Chip, 220pF, SL
CX319	24794470	EL, 47μF, ±20%, 16V
CX320	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX322	24781122	Chip, 1200pF
CX323	24092293	Chip, 0.1μF, +80%,–20%, 25V
CX325	24781122	Chip, 1200pF
CX326	24781330	Chip, 33pF, SL
CX327	24781221	Chip, 220pF, SL
CZ07	24206229	EL, 2.2μF, 50V
CZ08	24203100	EL, 10μF, ±20%, 16V
CZ09	24436220	CD, 22pF
CZ10	24473180	CD, 18pF
CZ11	24473100	CD, 10pF
CZ12	24232103	CD, 0.01μF, +80%, –20%
CZ13	24092398	CD, 0.1μF, +80%,–20%
CZ14	24617816	EL, 10μF, ±20%, 50V
CZ15	24232103	CD, 0.01μF, +80%, –20%
CZ16	24206478	EL, 0.47μF, 50V
CZ17	24232103	CD, 0.01μF, +80%, –20%
CZ19	24436181	CD, 180pF
CZ20	24538103	PF, 0.01μF
CZ21	24436390	CD, 39pF
CZ22	24617816	EL, 10μF, ±20%, 50V
CZ23	24092398	CD, 0.1μF, +80%,–20%
CZ24	24092398	CD, 0.1μF, +80%,–20%
CZ25	24203101	EL, 100μF, ±20%, 16V
CZ26	24232103	CD, 0.01μF, +80%, –20%
CZ28	24232103	CD, 0.01μF, +80%, –20%
CZ29	24092398	CD, 0.1μF, +80%,–20%
CZ30	24617816	EL, 10μF, ±20%, 50V
CZ32	24436120	CD, 12pF
CZ33	24436120	CD, 12pF
CZ34	24473120	CD, 12pF
CZ35	24473120	CD, 12pF

Location No.	Part No.	Description
CZ36	24232103	CD, 0.01μF, +80%, –20%
CZ37	24092398	CD, 0.1μF, +80%,–20%
CZ38	24092398	CD, 0.1μF, +80%,–20%
CZ43	24232103	CD, 0.01μF, +80%, –20%
CZ45	24436100	CD, 10pF, ±0.25pF

RESISTORS

R101	24382223	OMF, 22k ohm, 1W
R201	24366681	CF, 680 ohm
R202	24366821	CF, 820 ohm
R204	24366104	CF, 100k ohm
R205	24366101	CF, 100 ohm
R206	24366222	CF, 2200 ohm
R207	24366101	CF, 100 ohm
R208(U903)	24366103	CF, 10k ohm
R208(U902A)	24366101	CF, 100 ohm
R209(U903)	24366103	CF, 10k ohm
R209(U902A)	24366101	CF, 100 ohm
R211	24366563	CF, 56k ohm
R215	24366102	CF, 1k ohm
R216	24366103	CF, 10k ohm
R217(U903)	24366102	CF, 1k ohm
R217(U902A)	24366101	CF, 100 ohm
R218	24366513	CF, 51k ohm
R220	24366102	CF, 1k ohm
R221	24366102	CF, 1k ohm
R223	24366102	CF, 1k ohm
R226	24366101	CF, 100 ohm
R227	24367223	CF, 22k ohm, ±2%
R229	24366472	CF, 4700 ohm
R232	24366103	CF, 10k ohm
R233	24366104	CF, 100k ohm
R234	24366271	CF, 270 ohm
R235	24366472	CF, 4700 ohm
R236	24366102	CF, 1k ohm
R237	24366103	CF, 10k ohm
R303	24321109	MF, 1 ohm, 1/2W
R304	24366153	CF, 15k ohm
R305	24322119	MF, 1.1 ohm, 1W
R306	24366222	CF, 2200 ohm
R307	24366621	CF, 620 ohm
R308	24366472	CF, 4700 ohm
R309	24366333	CF, 33k ohm
R310	24366102	CF, 1k ohm
R313	24366303	CF, 30k ohm
R314	24366105	CF, 1M ohm
R315	24366105	CF, 1M ohm
R316	24366154	CF, 150k ohm
R317	24366472	CF, 4700 ohm
R318	24366471	CF, 470 ohm
R319	24366471	CF, 470 ohm
R320	24366101	CF, 100 ohm
R321	24366103	CF, 10k ohm
R322	24366102	CF, 1k ohm
R323	24366103	CF, 10k ohm
R324	24366122	CF, 1200 ohm
R325(U902A)	24366103	CF, 10k ohm
R325(U905C)	24366103	CF, 10k ohm
R326	24366104	CF, 100k ohm
R327	24339159	MF, 1.5 ohm, 2W
R328	24366102	CF, 1k ohm
R329	24366103	CF, 10k ohm
R330	24366113	CF, 11k ohm
R331	24366104	CF, 100k ohm

Location No.	Part No.	Description
R334	24366472	CF, 4700 ohm
R335	24366102	CF, 1k ohm
R336	24383271	OMF, 270 ohm, 2W
R341	24366153	CF, 15k ohm
R343	24366153	CF, 15k ohm
R344	24383821	OMF, 820 ohm, 2W
R360	24366103	CF, 10k ohm
R370	24322828	OMF, 0.82 ohm, 1W
R371	24366562	CF, 5600 ohm
R372	24366392	CF, 3900 ohm
R373	24366182	CF, 1800 ohm
R374	24366153	CF, 15k ohm
R401	24366391	CF, 390 ohm
R402(U902A)	24366103	CF, 10k ohm
R402(U905C)	24366103	CF, 10k ohm
R403	24366302	CF, 3k ohm
R405	24553682	OMF, 6800 ohm, 1W
R407	24366103	CF, 10k ohm
R408	24366150	CF, 15 ohm
R409	24000211	FR, 15 ohm, 1/2W
R411	24366560	CF, 56 ohm
R414	24383220	OMF, 22 ohm, 2W
R415	24553561	OMF, 560 ohm, 1W
R416	24381563	OMF, 56k ohm, 1/2W
R417	24510101	Cement, 100 ohm, 5W
R425	24552332	OMF, 3300 ohm, 1/2W
R426	24366821	CF, 820 ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552560	OMF, 56 ohm, 1/2W
R436	24366101	CF, 100 ohm
R437	24366471	CF, 470 ohm
R441	24383561	OMF, 560 ohm, 2W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24552182	OMF, 1800 ohm, 1/2W
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366114	CF, 110k ohm
R466	24366562	CF, 5600 ohm
R469	24531150	FR, 15 ohm, 1/2W
R470	24339518	MF, 0.51 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R473	24366473	CF, 47k ohm
R474	24366473	CF, 47k ohm
R478	24376333	CF, 33k ohm, 1/2W
R479	24531680	FR, 68 ohm, 1/2W
R480	24552222	OMF, 2200 ohm, 1/2W
R481	24366223	CF, 22k ohm
R482	24366103	CF, 10k ohm
R486	24382103	OMF, 10k ohm, 1W
R487	24366474	CF, 470k ohm
R488	24366154	CF, 150k ohm
R490	24366101	CF, 100 ohm
R501	24366223	CF, 22k ohm
R502	24366101	CF, 100 ohm
R503	24366101	CF, 100 ohm
R505	24366102	CF, 1k ohm
R506	24366103	CF, 10k ohm
R508	24366102	CF, 1k ohm
R509	24366102	CF, 1k ohm
R510	24366102	CF, 1k ohm
R511	24366101	CF, 100 ohm
R512	24366101	CF, 100 ohm
R513	24366472	CF, 4700 ohm

Location No.	Part No.	Description
R514	24366472	CF, 4700 ohm
R516	24366102	CF, 1k ohm
R517	24366102	CF, 1k ohm
R518	24366472	CF, 4700 ohm
R519	24366101	CF, 100 ohm
R520	24366103	CF, 10k ohm
R521	24366223	CF, 22k ohm
R522	24366473	CF, 47k ohm
R523	24366102	CF, 1k ohm
R524	24366102	CF, 1k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R661	24552221	OMF, 220 ohm, 1/2W
R662	24552221	OMF, 220 ohm, 1/2W
R670	24366272	CF, 2700 ohm
R671(U904)	24366102	CF, 1k ohm
R671(U902A)	24366222	CF, 2200 ohm
R672(U902A)	24366272	CF, 2700 ohm
R672(U904)	24366102	CF, 1k ohm
R673	24366222	CF, 2200 ohm
R674	24366332	CF, 3300 ohm
R675	24366392	CF, 3900 ohm
R676(U902A)	24366223	CF, 22k ohm
R676(U904)	24366223	CF, 22k ohm
R677(U902A)	24366223	CF, 22k ohm
R677(U904)	24366223	CF, 22k ohm
R678	24366223	CF, 22k ohm
R679	24366223	CF, 22k ohm
R680(U902A)	24366473	CF, 47k ohm
R680(U904)	24366223	CF, 22k ohm
R681	24366223	CF, 22k ohm
R682	24366104	CF, 100k ohm
R683	24366273	CF, 27k ohm
R684	24366229	CF, 2.2 ohm
R685	24366229	CF, 2.2 ohm
R686	24366229	CF, 2.2 ohm
R688	24366222	CF, 2200 ohm
R690	24366681	CF, 680 ohm
R691	24366681	CF, 680 ohm
R692	24366681	CF, 680 ohm
R693	24366681	CF, 680 ohm
R702	24552221	OMF, 220 ohm, 1/2W
R712	24366101	CF, 100 ohm
R715	24366393	CF, 39k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366151	CF, 150 ohm
R724	24366121	CF, 120 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24553331	OMF, 330 ohm, 1W
R732	24366220	CF, 22 ohm
R733	24366683	CF, 68k ohm
R734	24366220	CF, 22 ohm
R735	24366683	CF, 68k ohm
R736	24366560	CF, 56 ohm
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24366560	CF, 56 ohm
R741	24366279	CF, 2.7 ohm

Location No.	Part No.	Description
R742	24366279	CF, 2.7 ohm
R743	24554101	OMF, 100 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
⚠R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R802	24321568	MF, 0.56 ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24366101	CF, 100 ohm
R806	24552392	OMF, 3900 ohm, 1/2W
⚠R808	24019340	PTC Thermistor, 18 ohm, 290V
R810	24007492	Cement, 2.2 ohm, 20W
R811	24568271	Cement, 270 ohm, 7W
R814	24366122	CF, 1200 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24323759	OMF, 7.5 ohm, 2W
R818	24322228	MF, 0.22 ohm, 1W
R819	24321829	MF, 8.2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24366272	CF, 2700 ohm
R824	24569101	Cement, 100 ohm, 10W
R825	24569100	Cement, 10 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R829	24322228	MF, 0.22 ohm, 1W
R830	24366471	CF, 470 ohm
R831	24366471	CF, 470 ohm
R832	24366472	CF, 4700 ohm
R833	24366222	CF, 2200 ohm
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W
R846	24366561	CF, 560 ohm
R847	24366472	CF, 4700 ohm
R890	24553333	OMF, 33k ohm, 1W
R899	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376821	CF, 820 ohm, 1/2W
R902	24376821	CF, 820 ohm, 1/2W
R903	24376821	CF, 820 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R906	24366102	CF, 1k ohm
R907	24366102	CF, 1k ohm
R908	24366102	CF, 1k ohm
R909	24366222	CF, 2200 ohm
R910	24552121	OMF, 120 ohm, 1/2W
R912	24366102	CF, 1k ohm
R914	24366101	CF, 100 ohm
R915	24366560	CF, 56 ohm
R916	24366470	CF, 47 ohm
R917	24366271	CF, 270 ohm
R918	24366100	CF, 10 ohm
R919	24366102	CF, 1k ohm
R920	24000907	FR, 3.9 ohm, 1W
R921	24366101	CF, 100 ohm
R922	24366560	CF, 56 ohm
R924	24366100	CF, 10 ohm
R925	24366271	CF, 270 ohm
R926	24366102	CF, 1k ohm
R928	24366101	CF, 100 ohm
R929	24366560	CF, 56 ohm
R930	24366100	CF, 10 ohm

Location No.	Part No.	Description
R932	24366332	CF, 3300 ohm
R933	24366750	CF, 75 ohm
R934	24366391	CF, 390 ohm
R935	24366821	CF, 820 ohm
R936	24366750	CF, 75 ohm
R937	24366271	CF, 270 ohm
R939	24366101	CF, 100 ohm
R942	24366392	CF, 3900 ohm
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm
R945	24366470	CF, 47 ohm
R946	24366470	CF, 47 ohm
R960	24383153	OMF, 15k ohm, 2W
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R966	24383153	OMF, 15k ohm, 2W
R967	24383153	OMF, 15k ohm, 2W
R968	24383153	OMF, 15k ohm, 2W
R969	24366101	CF, 100 ohm
R970	24366101	CF, 100 ohm
R971	24366101	CF, 100 ohm
R977	24366681	CF, 680 ohm
R980	24366471	CF, 470 ohm
R981	24366821	CF, 820 ohm
R982	24366103	CF, 10k ohm
R983	24366222	CF, 2200 ohm
R984	24366152	CF, 1500 ohm
R985	24366471	CF, 470 ohm
R986	24366681	CF, 680 ohm
R987	24366681	CF, 680 ohm
R988	24366472	CF, 4700 ohm
R989	24366332	CF, 3300 ohm
R990	24366222	CF, 2200 ohm
R991	24366681	CF, 680 ohm
R992	24366150	CF, 15 ohm
R4034	24366332	CF, 3300 ohm
R4301	24366222	CF, 2200 ohm
R4302	24366103	CF, 10k ohm
R4303	24019090	MF, 330k ohm, 1%, 1/4W
R4305	24366681	CF, 680 ohm
R4306	24366472	CF, 4700 ohm
R4350	24066873	VR, 100k ohm, 0.3W
R4401	24366103	CF, 10k ohm
R4402	24366222	CF, 2200 ohm
R4403	24000639	MF, 22k ohm, ±1%, 1/4W
R4404	24000364	MF, 1800 ohm, ±1%, 1/4W
R4405	24000247	MF, 39k ohm, ±1%, 1/4W
R4406	24000356	MF, 820 ohm, ±1%, 1/4W
R4407	24000367	MF, 2400 ohm, ±1%, 1/4W
R4408	24000637	MF, 15k ohm, ±1%, 1/4W
R4409	24000361	MF, 1300 ohm, ±1%, 1/4W
R4410	24552470	OMF, 47 ohm, 1/2W
R4411	24366472	CF, 4700 ohm
R4412	24366103	CF, 10k ohm
R4413	24366751	CF, 750 ohm
R4420	24000639	MF, 22k ohm, ±1%, 1/4W
R4421	24366103	CF, 10k ohm
R4422	24366473	CF, 47k ohm
R4423	24366223	CF, 22k ohm
R4450	24066878	VR, 2k ohm, 0.3W
RA03	24366102	CF, 1k ohm

Location No.	Part No.	Description
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366102	CF, 1k ohm
RA11	24366102	CF, 1k ohm
RA12	24366473	CF, 47k ohm
RA13	24366153	CF, 15k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA33	24366102	CF, 1k ohm
RA35	24366102	CF, 1k ohm
RA36	24366472	CF, 4700 ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA61	24366103	CF, 10k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA64	24366103	CF, 10k ohm
RA67	24366472	CF, 4700 ohm
RA68	24366472	CF, 4700 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366472	CF, 4700 ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB03	24366101	CF, 100 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB41	24366182	CF, 1800 ohm
RB42	24366102	CF, 1k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RF04	24366102	CF, 1k ohm
RF06	24366102	CF, 1k ohm
RF08	24366100	CF, 10 ohm
RF09	24366100	CF, 10 ohm
RF10	24366100	CF, 10 ohm
RF11	24366103	CF, 10k ohm
RF12	24366101	CF, 100 ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366103	CF, 10k ohm
RF16	24366471	CF, 470 ohm
RF20	24366472	CF, 4700 ohm
RF21	24366102	CF, 1k ohm
RF22	24366102	CF, 1k ohm
RF26	24366102	CF, 1k ohm
RF35	24366151	CF, 150 ohm
RF36	24366151	CF, 150 ohm
RF37	24366151	CF, 150 ohm
RG01	24366223	CF, 22k ohm
RG02	24366223	CF, 22k ohm

Location No.	Part No.	Description
RG03	24366101	CF, 100 ohm
RG04	24366101	CF, 100 ohm
RG05	24366101	CF, 100 ohm
RG07	24366101	CF, 100 ohm
RG08	24366101	CF, 100 ohm
RG09	24366123	CF, 12k ohm
RG10	24366303	CF, 30k ohm
RG11	24366123	CF, 12k ohm
RG12	24366303	CF, 30k ohm
RG13	24366102	CF, 1k ohm
RQ01	24366102	CF, 1k ohm
RQ02	24366475	CF, 4.7M ohm
RQ03	24366102	CF, 1k ohm
RQ04	24366511	CF, 510 ohm
RQ05	24366471	CF, 470 ohm
RQ06	24366471	CF, 470 ohm
RQ07	24366103	CF, 10k ohm
RQ08	24366102	CF, 1k ohm
RQ09	24366102	CF, 1k ohm
RQ10	24366102	CF, 1k ohm
RQ11	24366561	CF, 560 ohm
RQ12	24366561	CF, 560 ohm
RQ13	24366203	CF, 20k ohm
RQ14	24366273	CF, 27k ohm
RR21	24366102	CF, 1k ohm
RR22	24366102	CF, 1k ohm
RR23	24366562	CF, 5600 ohm
RR24	24366332	CF, 3300 ohm
RR25	24366362	CF, 3600 ohm
RR27	24366202	CF, 2k ohm
RR29	24366101	CF, 100 ohm
RR30	24366101	CF, 100 ohm
RR33	24366101	CF, 100 ohm
RR34	24366102	CF, 1k ohm
RR35	24366102	CF, 1k ohm
RR36	24366103	CF, 10k ohm
RR38	24366222	CF, 2200 ohm
RR39	24366222	CF, 2200 ohm
RR40	24366471	CF, 470 ohm
RR41	24366473	CF, 47k ohm
RR42	24366101	CF, 100 ohm
RR43	24366101	CF, 100 ohm
RR44	24366101	CF, 100 ohm
RR50	24366101	CF, 100 ohm
RR51	24366101	CF, 100 ohm
RR52	24366101	CF, 100 ohm
RS01	24366681	CF, 680 ohm
RS02	24366681	CF, 680 ohm
RS03	24366101	CF, 100 ohm
RS04	24366101	CF, 100 ohm
RS05	24366472	CF, 4700 ohm
RS06	24366472	CF, 4700 ohm
RS07	24366472	CF, 4700 ohm
RS08	24366472	CF, 4700 ohm
RS09	24366472	CF, 4700 ohm
RS10	24366472	CF, 4700 ohm
RS11	24366101	CF, 100 ohm
RS13	24366101	CF, 100 ohm
RS14	24366101	CF, 100 ohm
RS15	24366104	CF, 100k ohm
RS16	24366104	CF, 100k ohm
RS17	24366223	CF, 22k ohm
RS18	24366223	CF, 22k ohm
RS19	24366102	CF, 1k ohm

Location No.	Part No.	Description
RS20	24366102	CF, 1k ohm
RS21	24366222	CF, 2200 ohm
RS22	24366222	CF, 2200 ohm
RS23	24366101	CF, 100 ohm
RS24	24366101	CF, 100 ohm
RS27	24366104	CF, 100k ohm
RS28	24366104	CF, 100k ohm
RS29	24366223	CF, 22k ohm
RS30	24366223	CF, 22k ohm
RS31	24366103	CF, 10k ohm
RS32	24366104	CF, 100k ohm
RS35	24366223	CF, 22k ohm
RS36	24366223	CF, 22k ohm
RS37	24366104	CF, 100k ohm
RS38	24366104	CF, 100k ohm
RS43	24366681	CF, 680 ohm
RS44	24366681	CF, 680 ohm
RS45	24366681	CF, 680 ohm
RS46	24366681	CF, 680 ohm
RV01	24366101	CF, 100 ohm
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366162	CF, 1600 ohm
RV08	24366162	CF, 1600 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV12	24366681	CF, 680 ohm
RV13	24366681	CF, 680 ohm
RV16	24366471	CF, 470 ohm
RV18	24366123	CF, 12k ohm
RV19	24366101	CF, 100 ohm
RV20	24366101	CF, 100 ohm
RV21	24366221	CF, 220 ohm
RV22	24366680	CF, 68 ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24366101	CF, 100 ohm
RV26	24366181	CF, 180 ohm
RV27	24366750	CF, 75 ohm
RV28	24366683	CF, 68k ohm
RV29	24366273	CF, 27k ohm
RV30	24366750	CF, 75 ohm
RV32	24366750	CF, 75 ohm
RV33	24366123	CF, 12k ohm
RV34	24366123	CF, 12k ohm
RV35	24366103	CF, 10k ohm
RV36	24366101	CF, 100 ohm
RV40	24366471	CF, 470 ohm
RV41	24366104	CF, 100k ohm
RV42	24366471	CF, 470 ohm
RV43	24366471	CF, 470 ohm
RV44	24366471	CF, 470 ohm
RV45	24366100	CF, 10 ohm
RV46	24366112	CF, 1100 ohm
RV47	24366102	CF, 1k ohm
RV48	24366102	CF, 1k ohm
RV49	24366102	CF, 1k ohm
RV60	24366471	CF, 470 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24366101	CF, 100 ohm
RV63	24552820	OMF, 82 ohm, 1/2W
RV64	24366750	CF, 75 ohm

Location No.	Part No.	Description
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24366101	CF, 100 ohm
RV67	24552820	OMF, 82 ohm, 1/2W
RV68	24366750	CF, 75 ohm
RV69	24366101	CF, 100 ohm
RV75	24366332	CF, 3300 ohm
RV76	24366220	CF, 22 ohm
RV77	24366182	CF, 1800 ohm
RV80	24366102	CF, 1k ohm
RV81(U904)	24366750	CF, 75 ohm
RV81(U902A)	24366472	CF, 4700 ohm
RV82	24366153	CF, 15k ohm
RV83	24366103	CF, 10k ohm
RV85(U904)	24366750	CF, 75 ohm
RV85(U902A)	24366750	CF, 75 ohm
RV86	24366750	CF, 75 ohm
RV87(U904)	24366750	CF, 75 ohm
RV87(U902A)	24366750	CF, 75 ohm
RV89	24366750	CF, 75 ohm
RV90	24366681	CF, 680 ohm
RV91	24366681	CF, 680 ohm
RV92	24366100	CF, 10 ohm
RV93	24366104	CF, 100k ohm
RV94	24366103	CF, 10k ohm
RV95	24366222	CF, 2200 ohm
RX201	24872470	Chip, 47 ohm, 1/16W
RX202	24872122	Chip, 1200 ohm, 1/16W
RX203	24872151	Chip, 150 ohm, 1/16W
RX204	24872392	Chip, 3900 ohm, 1/16W
RX205	24872103	Chip, 10k ohm, 1/16W
RX206	24871331	Chip, 330 ohm, 1/8W
RX207	24872220	Chip, 22 ohm, 1/16W
RX208	24872511	Chip, 510 ohm, 1/16W
RX209	24872151	Chip, 150 ohm, 1/16W
RX210	24872122	Chip, 1200 ohm, 1/16W
RX211	24872221	Chip, 220 ohm, 1/16W
RX212	24871561	Chip, 560 ohm, 1/8W
RX213	24872220	Chip, 22 ohm, 1/16W
RX214	24872511	Chip, 510 ohm, 1/16W
RX215	24872331	Chip, 330 ohm, 1/16W
RX216	24872122	Chip, 1200 ohm, 1/16W
RX217	24872221	Chip, 220 ohm, 1/16W
RX218	24871561	Chip, 560 ohm, 1/8W
RX219	24872220	Chip, 22 ohm, 1/16W
RX220	24872101	Chip, 100 ohm, 1/16W
RX221	24872153	Chip, 15k ohm, 1/16W
RX222	24872390	Chip, 39 ohm, 1/16W
RX223	24872103	Chip, 10k ohm, 1/16W
RX224	24872103	Chip, 10k ohm, 1/16W
RX225	24872122	Chip, 1200 ohm, 1/16W
RX226	24872271	Chip, 270 ohm, 1/16W
RX227	24872222	Chip, 2200 ohm, 1/16W
RX228	24871471	Chip, 470 ohm, 1/8W
RX229	24872680	Chip, 68 ohm, 1/16W
RX230	24872430	Chip, 43 ohm, 1/16W
RX232	24872103	Chip, 10k ohm, 1/16W
RX233	24872103	Chip, 10k ohm, 1/16W
RX234	24872122	Chip, 1200 ohm, 1/16W
RX235	24872271	Chip, 270 ohm, 1/16W
RX236	24872222	Chip, 2200 ohm, 1/16W
RX237	24871471	Chip, 470 ohm, 1/8W
RX238	24872680	Chip, 68 ohm, 1/16W
RX239	24872470	Chip, 47 ohm, 1/16W
RX241	24872103	Chip, 10k ohm, 1/16W

Location No.	Part No.	Description
RX242	24872103	Chip, 10k ohm, 1/16W
RX243	24872122	Chip, 1200 ohm, 1/16W
RX244	24872271	Chip, 270 ohm, 1/16W
RX245	24872222	Chip, 2200 ohm, 1/16W
RX246	24871471	Chip, 470 ohm, 1/8W
RX247	24872680	Chip, 68 ohm, 1/16W
RX248	24872272	Chip, 2700 ohm, 1/16W
RX249	24872392	Chip, 3900 ohm, 1/16W
RX250	24872222	Chip, 2200 ohm, 1/16W
RX251	24872682	Chip, 6800 ohm, 1/16W
RX252	24872102	Chip, 1k ohm, 1/16W
RX253	24872103	Chip, 10k ohm, 1/16W
RX254	24872103	Chip, 10k ohm, 1/16W
RX255	24872103	Chip, 10k ohm, 1/16W
RX256	24872103	Chip, 10k ohm, 1/16W
RX257	24872103	Chip, 10k ohm, 1/16W
RX258	24872103	Chip, 10k ohm, 1/16W
RX259	24872472	Chip, 4700 ohm, 1/16W
RX261	24872103	Chip, 10k ohm, 1/16W
RX262	24872103	Chip, 10k ohm, 1/16W
RX263	24872103	Chip, 10k ohm, 1/16W
RX264	24872103	Chip, 10k ohm, 1/16W
RX266	24872472	Chip, 4700 ohm, 1/16W
RX267	24872472	Chip, 4700 ohm, 1/16W
RX268	24872472	Chip, 4700 ohm, 1/16W
RX269	24872472	Chip, 4700 ohm, 1/16W
RX270	24872472	Chip, 4700 ohm, 1/16W
RX271	24872472	Chip, 4700 ohm, 1/16W
RX272	24872472	Chip, 4700 ohm, 1/16W
RX273	24872472	Chip, 4700 ohm, 1/16W
RX274	24872472	Chip, 4700 ohm, 1/16W
RX277	24872103	Chip, 10k ohm, 1/16W
RX278	24872103	Chip, 10k ohm, 1/16W
RX279	24872103	Chip, 10k ohm, 1/16W
RX280	24872103	Chip, 10k ohm, 1/16W
RX281	24872103	Chip, 10k ohm, 1/16W
RX283	24872103	Chip, 10k ohm, 1/16W
RX284	24872472	Chip, 4700 ohm, 1/16W
RX285	24872102	Chip, 1k ohm, 1/16W
RX286	24872222	Chip, 2200 ohm, 1/16W
RX287	24872102	Chip, 1k ohm, 1/16W
RX288	24872332	Chip, 3300 ohm, 1/16W
RX289	24872102	Chip, 1k ohm, 1/16W
RX290	24872681	Chip, 680 ohm, 1/16W
RX291	24872332	Chip, 3300 ohm, 1/16W
RX295	24872333	Chip, 33k ohm, 1/16W
RX296	24872470	Chip, 47 ohm, 1/16W
RX299	24872103	Chip, 10k ohm, 1/16W
RX300	24872512	Chip, 5100 ohm, 1/16W
RX301	24872471	Chip, 470 ohm, 1/16W
RX302	24872471	Chip, 470 ohm, 1/16W
RX303	24872471	Chip, 470 ohm, 1/16W
RX304	24872222	Chip, 2200 ohm, 1/16W
RX305	24872470	Chip, 47 ohm, 1/16W
RX307	24872103	Chip, 10k ohm, 1/16W
RX308	24872561	Chip, 560 ohm, 1/16W
RX309	24872181	Chip, 180 ohm, 1/16W
RZ01	24366471	CF, 470 ohm
RZ02	24366152	CF, 1500 ohm
RZ04	24366332	CF, 3300 ohm
RZ05	24366332	CF, 3300 ohm
RZ06	24366821	CF, 820 ohm
RZ07	24366822	CF, 8200 ohm
RZ08	24366332	CF, 3300 ohm

Location No.	Part No.	Description
RZ12	24366471	CF, 470 ohm
RZ14	24366123	CF, 12k ohm
RZ15	24366392	CF, 3900 ohm
RZ16	24366122	CF, 1200 ohm
RZ17	24366331	CF, 330 ohm
RZ18	24366821	CF, 820 ohm
RZ19	24366471	CF, 470 ohm
RZ20	24366122	CF, 1200 ohm
RZ21	24366680	CF, 68 ohm
RZ22	24366101	CF, 100 ohm
RZ23	24366821	CF, 820 ohm
RZ24	24366821	CF, 820 ohm
RZ25	24366101	CF, 100 ohm
RZ26	24366101	CF, 100 ohm
RZ28	24366564	CF, 560k ohm
RZ29	24366331	CF, 330 ohm
RZ30	24366331	CF, 330 ohm
RZ31	24366102	CF, 1k ohm

COILS & TRANSFORMERS

L101	23221803	Coil, Choke, TLN3040D
L201	23238710	Coil, Peaking, TRF4220AJ
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289101	Coil, Peaking, TRF4101AF
L400(U905C)	23221886	Coil, Choke, TLN3073
L400(U902A)	23289100	Coil, Peaking, TRF4100AF
L409	23238715	Coil, Peaking, TRF4829AJ
L410	23103859	Coil (Ferrite Bead), TEM2011
L441	23233966	Coil, Linearity, TLN2158AY
L442	23248164	Coil, Choke, TLN3437AD
L443	23248165	Coil, Choke, TLN3438AD
L461	23248111	Coil, Choke, TLN3349D
L462	----------	DY, Supplied with V901
L491	23211923	Coil, Choke, AT4043/100
L501	23289479	Coil, Peaking, TRF44R7AF
L503	23289470	Coil, Peaking, TRF4470AF
L504	23103824	Coil, TEM2028K
L505	23103824	Coil, TEM2028K
L506	23103824	Coil, TEM2028K
L507	23103824	Coil, TEM2028K
L508	23103824	Coil, TEM2028K
L509	23103824	Coil, TEM2028K
L510	23238718	Coil, Peaking, TRF4479AJ
L676	23238562	Coil, Peaking, TRF4109AJ
L677	23238562	Coil, Peaking, TRF4109AJ
L682	23289109	Coil, Peaking, TRF41R0AF
L683	23289109	Coil, Peaking, TRF41R0AF
L701	23289100	Coil, Peaking, TRF4100AF
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L814	23221747	Coil, Choke, TRF9253D
L875	23248087	Coil, Choke, TLN3312D
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L886	23103859	Coil (Ferrite Bead), TEM2011
L889	23222694	Coil, Width, TLN2026
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23222694	Coil, Width, TLN2026
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23222694	Coil, Width, TLN2026
⚠L901	23200276	Coil, Degaussing, TSB-2330ER

Location No.	Part No.	Description
L902	23289101	Coil, Peaking, TRF4101AF
L903	23289101	Coil, Peaking, TRF4101AF
L904	23289101	Coil, Peaking, TRF4101AF
L905	23289220	Coil, Peaking, TRF4220AF
L906	23289220	Coil, Peaking, TRF4220AF
L907	23289220	Coil, Peaking, TRF4220AF
L908	23289100	Coil, Peaking, TRF4100AF
L910	23289229	Coil, Peaking, TRF42R2AF
L911	23289101	Coil, Peaking, TRF4101AF
L912	23289150	Coil, Peaking, TRF4150AF
L913	23289150	Coil, Peaking, TRF4150AF
L914	23289150	Coil, Peaking, TRF4150AF
L4430	23289680	Coil, Peaking, TRF4680AF
LA01	23289100	Coil, Peaking, TRF4100AF
LC05	23238562	Coil, Peaking, TRF4109AJ
LC06	23103859	Coil (Ferrite Bead), TEM2011
LC07	23238562	Coil, Peaking, TRF4109AJ
LC08	23238562	Coil, Peaking, TRF4109AJ
LC09	23238562	Coil, Peaking, TRF4109AJ
LF01	23238562	Coil, Peaking, TRF4109AJ
LF02	23238562	Coil, Peaking, TRF4109AJ
LF03	23238562	Coil, Peaking, TRF4109AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238714	Coil, Peaking, TRF4100AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289109	Coil, Peaking, TRF41R0AF
LF13	23289100	Coil, Peaking, TRF4100AF
LQ01	23238709	Coil, Peaking, TRF4270AJ
LQ02	23238718	Coil, Peaking, TRF4479AJ
LQ03	23238718	Coil, Peaking, TRF4479AJ
LQ04	23238718	Coil, Peaking, TRF4479AJ
LS01	23289109	Coil, Peaking, TRF41R0AF
LV03	23103824	Coil, TEM2028K
LV06	23289109	Coil, Peaking, TRF41R0AF
LV07	23289109	Coil, Peaking, TRF41R0AF
LV08	23289390	Coil, Peaking, TRF4390AF
LV37	23289150	Coil, Peaking, TRF4150AF
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV48	23238705	Coil, Peaking, TRF4560AJ
LV49	23103824	Coil, TEM2028K
LX201	23103829	Chip (Ferrite Bead), TEM2122M
LX202	23103829	Chip (Ferrite Bead), TEM2122M
LX204	23289829	Coil, Peaking, TRF48R2AF
LX205	23289270	Coil, Peaking, TRF4270AF
LX206	23289270	Coil, Peaking, TRF4270AF
LX208	23103822	Chip (Ferrite Bead), TEM2117T
LX209	23103829	Chip (Ferrite Bead), TEM2122M
LX211	23103829	Chip (Ferrite Bead), TEM2122M
LX212	23103822	Chip (Ferrite Bead), TEM2117T
LX213	23103829	Chip (Ferrite Bead), TEM2122M
LX215	23103829	Chip (Ferrite Bead), TEM2122M
LX217	23289120	Coil, Peaking, TRF4120AF
LX218	23289120	Coil, Peaking, TRF4120AF
LX219	23289120	Coil, Peaking, TRF4120AF

Location No.	Part No.	Description
LX220	23103829	Chip (Ferrite Bead), TEM2122M
LX221	23103829	Chip (Ferrite Bead), TEM2122M
LX222	23103829	Chip (Ferrite Bead), TEM2122M
LX223	23103829	Chip (Ferrite Bead), TEM2122M
LX224	23103829	Chip (Ferrite Bead), TEM2122M
LX227	23103829	Chip (Ferrite Bead), TEM2122M
LX231	23245822	Chip, Inductor, 2.2μH
LX304	23238562	Coil, Peaking, TRF4109AJ
LX305	23238562	Coil, Peaking, TRF4109AJ
LX306	23238562	Coil, Peaking, TRF4109AJ
LX307	23238562	Coil, Peaking, TRF4109AJ
LX308	23238562	Coil, Peaking, TRF4109AJ
LX309	23238562	Coil, Peaking, TRF4109AJ
LX310	23238562	Coil, Peaking, TRF4109AJ
LX311	23238562	Coil, Peaking, TRF4109AJ
LX312	23238562	Coil, Peaking, TRF4109AJ
LX313	23238562	Coil, Peaking, TRF4109AJ
LZ01	23238712	Coil, Peaking, TRF4150AJ
LZ02	23238716	Coil, Peaking, TRF4689AJ
LZ03	23238716	Coil, Peaking, TRF4689AJ
LZ04	23238709	Coil, Peaking, TRF4270AJ
LZ05	23238716	Coil, Peaking, TRF4689AJ
LZ06	23238709	Coil, Peaking, TRF4270AJ
LZ07	23238709	Coil, Peaking, TRF4270AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
LZ11	23238709	Coil, Peaking, TRF4270AJ
T401	23224333	Transformer, Horiz. Drive, TLN1080
⚠T461	23236513	Transformer, Flyback, TFB4137AR
T801	23211670	Line, Filter, TRF3164G
⚠T803	23217350	Transformer, Converter, TPW3367AR
T804	23211670	Line, Filter, TRF3164G

SEMICONDUCTORS

Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6534053	Transistor, 2SA1015-Y(TE
Q204	A6317440	Transistor, 2SC1815-Y
Q205	A6317440	Transistor, 2SC1815-Y
Q207	A6342206	Transistor, 2SC2878-A(TE
Q301	23905610	IC, LA7846N
Q302	B0384625	IC, TA8859CP
Q303	A6534053	Transistor, 2SA1015-Y(TE
Q304	A6317440	Transistor, 2SC1815-Y
Q360	A6002040	Transistor, RN1204
Q361	A6002040	Transistor, RN1204
Q362	A6002050	Transistor, RN1205
Q370	A6534053	Transistor, 2SA1015-Y(TE
Q402	A6325419	Transistor, 2SC2235-O(FA
Q404	A6371775	Transistor, 2SC5144
Q418	23314141	Transistor, 2SC3852
Q420(U903)	23314141	Transistor, 2SC3852
Q420(U95C)	23316816	IC, LA7860
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23904275	IC, PQ12RF11

Location No.	Part No.	Description
Q460	23314850	Transistor, 2SA1788-E
Q461	A6317440	Transistor, 2SC1815-Y
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q487	A6317440	Transistor, 2SC1815-Y
Q501	B0385990	IC, TA1259N
Q502	A6317440	Transistor, 2SC1815-Y
Q503	A6317440	Transistor, 2SC1815-Y
Q510	A6317440	Transistor, 2SC1815-Y
Q518	A6317440	Transistor, 2SC1815-Y
Q611	A6534053	Transistor, 2SA1015-Y(TE
Q612	A6534053	Transistor, 2SA1015-Y(TE
Q670	B0377307	IC, TA8256H
Q671	A6342206	Transistor, 2SC2878-A(TE
Q672	A6342206	Transistor, 2SC2878-A(TE
Q673	A6342206	Transistor, 2SC2878-A(TE
Q688	A6002040	Transistor, RN1204
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534053	Transistor, 2SA1015-Y(TE
Q711	23314911	Transistor, 2SB1569A
Q712	23314914	Transistor, 2SD2400A
Q719	A6333346	Transistor, 2SC2655-Y(C)
Q801	23905084	IC, STR-S6709
Q802	23314141	Transistor, 2SC3852
Q826	A8643106	Photo Coupler, TLP621(GR)
Q830	23314141	Transistor, 2SC3852
Q831	23314141	Transistor, 2SC3852
Q832	23904274	IC, PQ09RF11
Q840	23318299	IC, L78MR05
Q901	A6368700	Transistor, 2SC4544
Q902	A6317440	Transistor, 2SC1815-Y
Q903	A6368700	Transistor, 2SC4544
Q904	A6317440	Transistor, 2SC1815-Y
Q905	A6368700	Transistor, 2SC4544
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6534145	Transistor, 2SA1020-Y(C)
Q908	A6321265	Transistor, 2SC2120-Y(TE)
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y
Q912	A6534053	Transistor, 2SA1015-Y(TE
Q913	A6534053	Transistor, 2SA1015-Y(TE
Q914	A6317440	Transistor, 2SC1815-Y
Q4321	A6002040	Transistor, RN1204
Q4421	A6002040	Transistor, RN1204
Q4423	A6325419	Transistor, 2SC2235-O(FA
QA01	23905592	IC, 87CS38N-XXXX
QA02	23904666	IC, NM24C08EN
QA04	A6002040	Transistor, RN1204
QB01	A6317440	Transistor, 2SC1815-Y
QB03	A6002050	Transistor, RN1205
QB30	A6317440	Transistor, 2SC1815-Y
QF01	23904898	IC, SDA5273S
QF03	A6317440	Transistor, 2SC1815-Y
QG01	B0385647	IC, TA1217AN
QQ01	B0385755	IC, TA1229N
QQ02	B0383881	IC, TA8772AN
QQ03	23314794	Transistor, 2PC1815Y
QQ04	23314794	Transistor, 2PC1815Y
QR21	23904807	IC, MC14577CP
QR22	23905603	IC, TDA8443B
QR23	A6534053	Transistor, 2SA1015-Y(TE

Location No.	Part No.	Description
QR24	A6534053	Transistor, 2SA1015-Y(TE
QS01	A6342206	Transistor, 2SC2878-A(TE
QS02	A6342206	Transistor, 2SC2878-A(TE
QS03	A6342206	Transistor, 2SC2878-A(TE
QS04	A6342206	Transistor, 2SC2878-A(TE
QS05	A6342206	Transistor, 2SC2878-A(TE
QS06	A6342206	Transistor, 2SC2878-A(TE
QS07	A6010040	Transistor, RN2004
QS08	A6342206	Transistor, 2SC2878-A(TE
QS09	A6342206	Transistor, 2SC2878-A(TE
QV01	B0385650	IC, TA1218N
QV02	A6317440	Transistor, 2SC1815-Y
QV03	A6317440	Transistor, 2SC1815-Y
QV04	A6317440	Transistor, 2SC1815-Y
QV05	A6534053	Transistor, 2SA1015-Y(TE
QV06	A6534053	Transistor, 2SA1015-Y(TE
QV07	A6342206	Transistor, 2SC2878-A(TE
QV08	A6317440	Transistor, 2SC1815-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QV80	A6534053	Transistor, 2SA1015-Y(TE
QX21	A6030630	IC, TC7S08F
QX22(U908A)	70119743	IC, PST523D
QX22(U908A)	A6030600	IC, TC7S00F
QX22(U908A)	A6030640	IC, TC7S32F
QX22(U908A)	A6030620	IC, TC7S04F
QX23(U908A)	B0370000	IC, TA78L05F
QX23(U908A)	A6030630	IC, TC7S08F
QX23(U908A)	A6030620	IC, TC7S04F
QX201	23314204	Transistor, 2SC2412K,Q
QX202	23314204	Transistor, 2SC2412K,Q
QX204	23314202	Transistor, 2SA1037K-Q
QX206	23314202	Transistor, 2SA1037K-Q
QX207	23905540	IC, TDA8755T
QX208	23905544	IC, TMS4C2970
QX209	23905541	IC, SAA7165WP
QX210	A6541130	Transistor, 2SA1162-Y
QX211	23314204	Transistor, 2SC2412K,Q
QX212	A6541130	Transistor, 2SA1162-Y
QX213	23314204	Transistor, 2SC2412K,Q
QX214	A6541130	Transistor, 2SA1162-Y
QX215	23314204	Transistor, 2SC2412K,Q
QX216	23314527	Transistor, XN4401
QX217	23314204	Transistor, 2SC2412K,Q
QX219	23905543	IC, P83C652EBA
QX220	A6030871	IC, TC7W04F(BRA)
QX221	23905542	IC, SAA4951WP
QX222	23905013	IC, TLC2932IPW
QX223	23905013	IC, TLC2932IPW
QX231	23314204	Transistor, 2SC2412K,Q
QX232	23314204	Transistor, 2SC2412K,Q
QX234	23314204	Transistor, 2SC2412K,Q
QZ01	B0410688	IC, TC9090AN
QZ02	23319504	IC, MM1031XS
QZ03	23314794	Transistor, 2PC1815Y
QZ04	23314794	Transistor, 2PC1815Y
QZ05	23314794	Transistor, 2PC1815Y
QZ06	23314794	Transistor, 2PC1815Y
D101	23316411	Diode, 1SS184
D201(U908A)	23316820	Diode, 1SS353
D201(U902A)	23115599	Diode, 1N4148
D240	23115599	Diode, 1N4148
D301	23118479	Diode, BYD33J

Location No.	Part No.	Description
D302	23118479	Diode, BYD33J
D303	23316794	Diode, SC570A
D306	23115599	Diode, 1N4148
D370	23316658	Diode, Zener, MTZJ3.6A
D371	23115599	Diode, 1N4148
D404	A7680591	Diode, 5VUZ52
D406	23118479	Diode, BYD33J
D418	23316749	Diode, Zener, MTZJ30A
D419	23316716	Diode, Zener, MTZJ11B
D420	23316716	Diode, Zener, MTZJ11B
D421	23316680	Diode, Zener, MTZJ7.5A
D4301	23316726	Diode, Zener, MTZJ15C
D432	23118479	Diode, BYD33J
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D460	23118479	Diode, BYD33J
D461	23316582	Diode, ERC20-06
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D468	23316718	Diode, Zener, MTZJ12A
D474	23316719	Diode, Zener, MTZJ12B
D486	23316731	Diode, Zener, MTZJ18B
D487	23118479	Diode, BYD33J
D490	23115599	Diode, 1N4148
D491	A7568460	Diode, TVR-1B
D501	23115599	Diode, 1N4148
D502	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D615	23115599	Diode, 1N4148
D617	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23316795	Diode, D6SB60L, F05
D802	23118479	Diode, BYD33J
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23118451	Diode, RU-4A
D815	23316725	Diode, Zener, MTZJ15B
D828	23115599	Diode, 1N4148
D883	23316406	Diode, FML-G16S
D885	23316184	Diode, FML-G12S
D891	23316184	Diode, FML-G12S
D892(U902A)	23316673	Diode, Zener, MTZJ5,6C
D892(U903)	23316184	Diode, FML-G12S
D893	23316672	Diode, Zener, MTZJ5.6B
D896	23118479	Diode, BYD33J
D901	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148

Location No.	Part No.	Description
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D910	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
D912	23115599	Diode, 1N4148
D913	23115599	Diode, 1N4148
D914	23115599	Diode, 1N4148
D4301	23316726	Diode, Zener, MTZJ15C
DB01	23358505	LED, SLR56VC196F
DB02	23358503	LED, SCL003MC3FX
DB03	23358522	LED, SIR-56SB3F
DB30	23115599	Diode, 1N4148
DF01	23316654	Diode, Zener, MTZJ3.0A
DR01	23316719	Diode, Zener, MTZJ12B
DR02	23316719	Diode, Zener, MTZJ12B
DR03	23316719	Diode, Zener, MTZJ12B
DR04	23316719	Diode, Zener, MTZJ12B
DV01	23316687	Diode, Zener, MTZJ9.1B
DV02	23316687	Diode, Zener, MTZJ9.1B
DV03	23316687	Diode, Zener, MTZJ9.1B
DV04	23316687	Diode, Zener, MTZJ9.1B
DV05	23316687	Diode, Zener, MTZJ9.1B
DV06	23316687	Diode, Zener, MTZJ9.1B
DV07	23316687	Diode, Zener, MTZJ9.1B
DV09	23115599	Diode, 1N4148
DV10	23115599	Diode, 1N4148
DV11	23115599	Diode, 1N4148
DV12	23316687	Diode, Zener, MTZJ9.1B
DV80	23115599	Diode, 1N4148
DZ01	23118622	Diode, Zener, RD10ESAB2

MISCELLANEOUS

⚠F470	23144502	Fuse, 1.0A
F470A	23165433	Holder, Fuse
F470B	23165433	Holder, Fuse
⚠F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
G224	24366271	CF, 270 ohm
G430	A7568460	Diode, TVR-1B
G510	23289470	Coil, Peaking, TRF4470AF
GV05	23289109	Coil, Peaking, TRF41R0AF
GV06	23289109	Coil, Peaking, TRF41R0AF
GV07	23289109	Coil, Peaking, TRF41R0AF
GV08	23289109	Coil, Peaking, TRF41R0AF
GV80	24366681	CF, 680 ohm
GV81	24366681	CF, 680 ohm
H002	23148250	Module, MVGS44A, IGR BG/DK
KB01	23904946	Remote Sensor, RPM-676CBR-S
P661	23363607	Headphone Jack, 3.5mm
⚠P801	23372014	Power Cord
PV01	23365891	Jack, 4P
PV03	23365546	Jack, 2C-2P
PV04	23363252	Pin Jack, Yellow
PV05	23365508	Jack, Phono
⚠S801	23344395	Switch, Power
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P

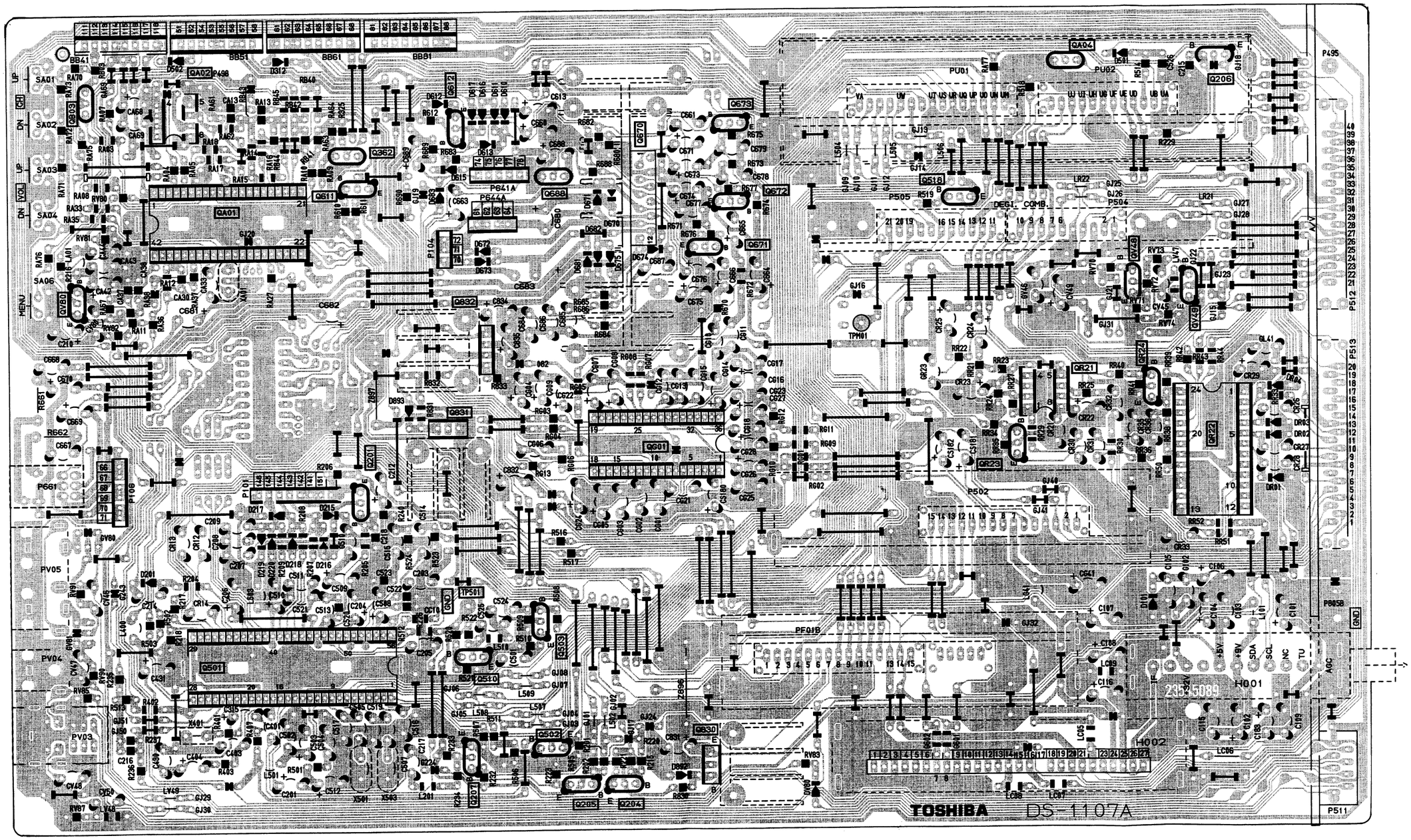
Location No.	Part No.	Description
SA04	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
⚠V901A	23902891	Socket, CRT, 10P
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X503	23153979	Crystal, 4.43MHz
XA01	23153325	Ceramic Resonator, 8.00M, TCR1056
XF01	23153421	Crystal, 20.48MHz
XQ01	23153969	Crystal, 4MHz
XX201	23153930	Crystal, 12.0MHz
Z201	23107519	Ceramic Video Trap, 4.43MHz, TCF1066
⚠Z420	23144450	Protector, PRF2000, 125V, 2A
⚠Z801	23904998	IC, HIC1016
⚠Z889	23144543	Protector, PRF50005491, 125V, 5A
⚠Z890	23144543	Protector, PRF50005491, 125V, 5A
⚠Z891	23144543	Protector, PRF50005491, 125V, 5A
⚠Z896	23144539	Protector, PRF20005491, 125V, 2A
⚠Z897	23144539	Protector, PRF20005491, 125V, 2A
ZX203	23103823	Filter, TEM2027D
ZX301	23303181	Filter, TEM1012N
ZX302	23303181	Filter, TEM1012N
PC BOARD ASSEMBLIES		
*U902A	23705744	Signal Board, PBPB6506B
*U903	23705656	Power/Def Board, PB6509X
*U904	23705658	Back Terminal AV Board, PB6511X
*U905A	23705657	CRT Drive Board, PB6510X-1
*U905B	23705661	AC-IN Baord, PB6510X-2
*U905C	23705662	E/W Board, PB6510X-3
*U905D	23705711	H.OUT Board, PB6510X-4
*U906	23704498	Comb/SECAM Board, PB5661X
*U907	23705659	Text Board, PB6513X
*U908A	23705660	UP-Converter Board, PB6514X
PICTURE TUBE		
⚠V901	23312694	Picture Tube, A66EAK252X54
TUNER		
H001	23321227	Tuner, EGA12LX1
ACCESSORIES		
K902	23306175	Remote Hand Unit, CT-9867
AT04	23305572	Battery Cover
Y101	23562817	Owner's Manual, German, 2866DD
Y102	23562818	Owner"s Manual, Italian, 2866DD

Location No.	Part No.	Description

THIS PAGE IS
INTENTIONALLY LEFT
BLANK.

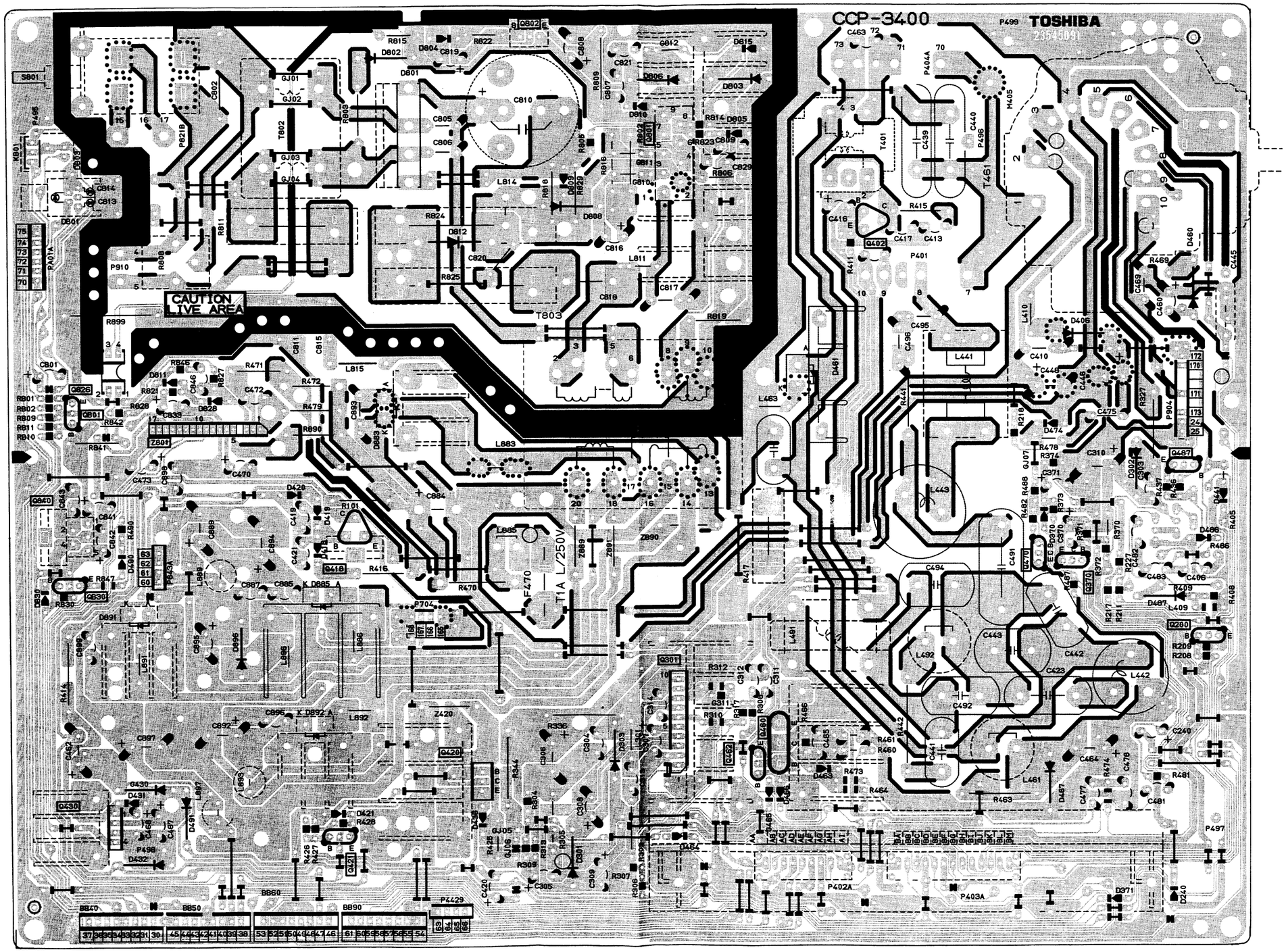
SIGNAL BOARD PB6506B

BOTTOM (FOIL) SIDE



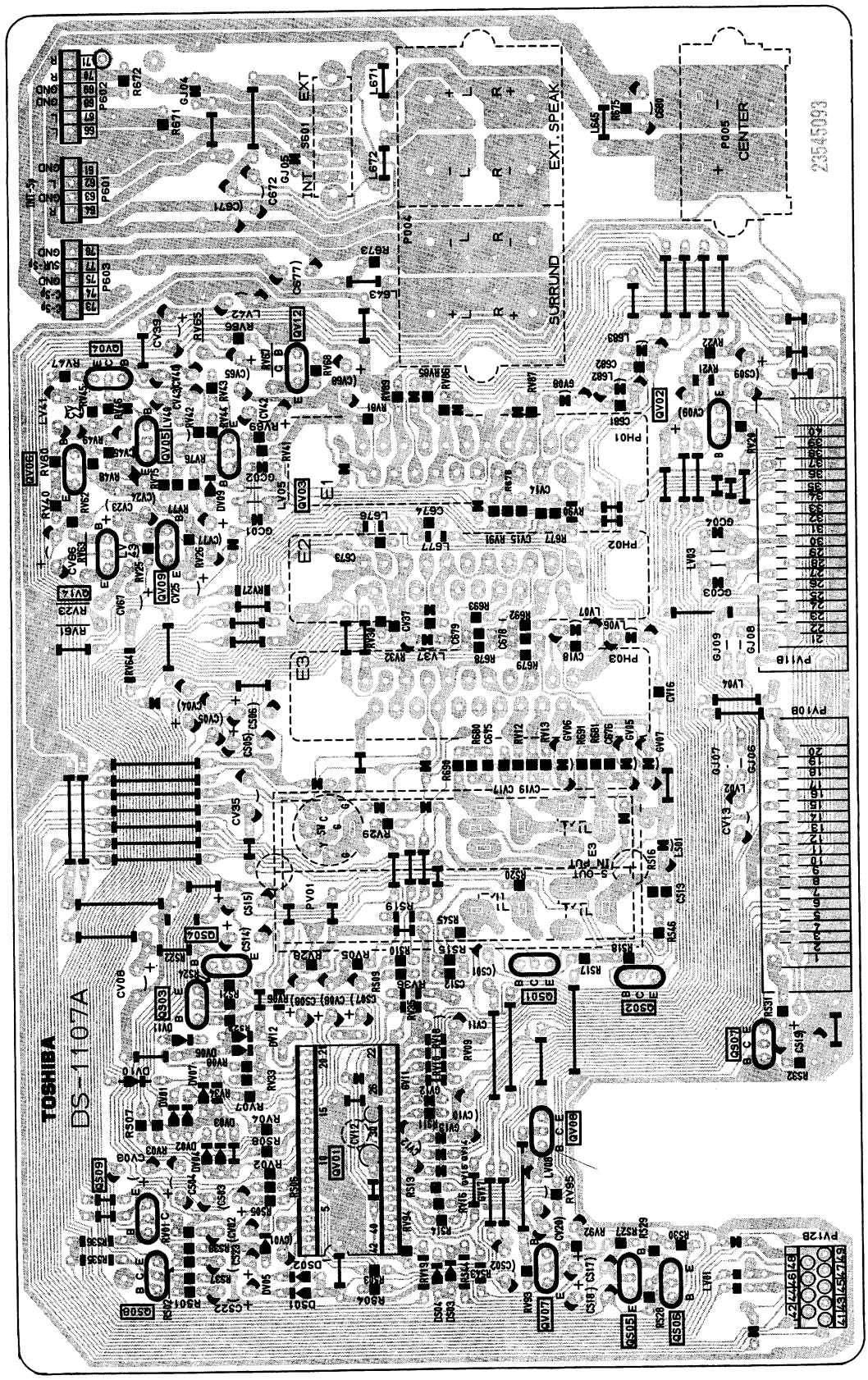
POWER/DEF BOARD PB6509X

BOTTOM (FOIL) SIDE



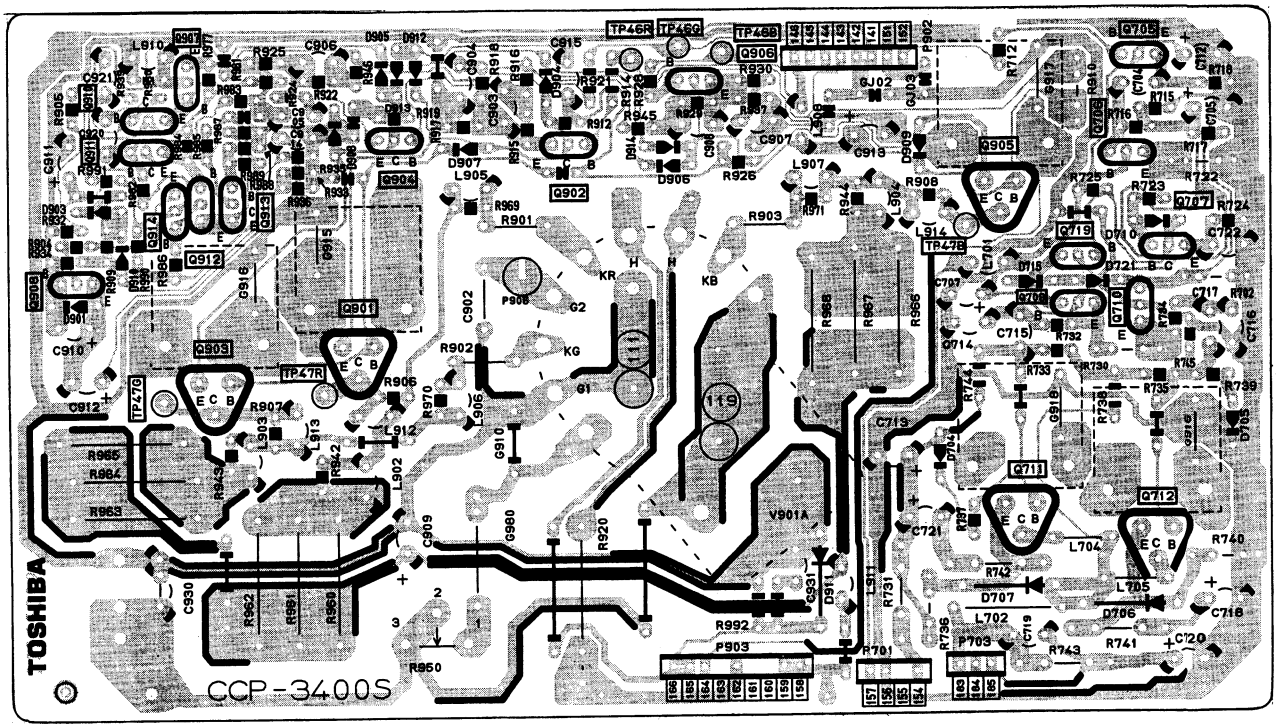
BACK TERMINAL/AV BOARD PB6511X

BOTTOM (FOIL) SIDE



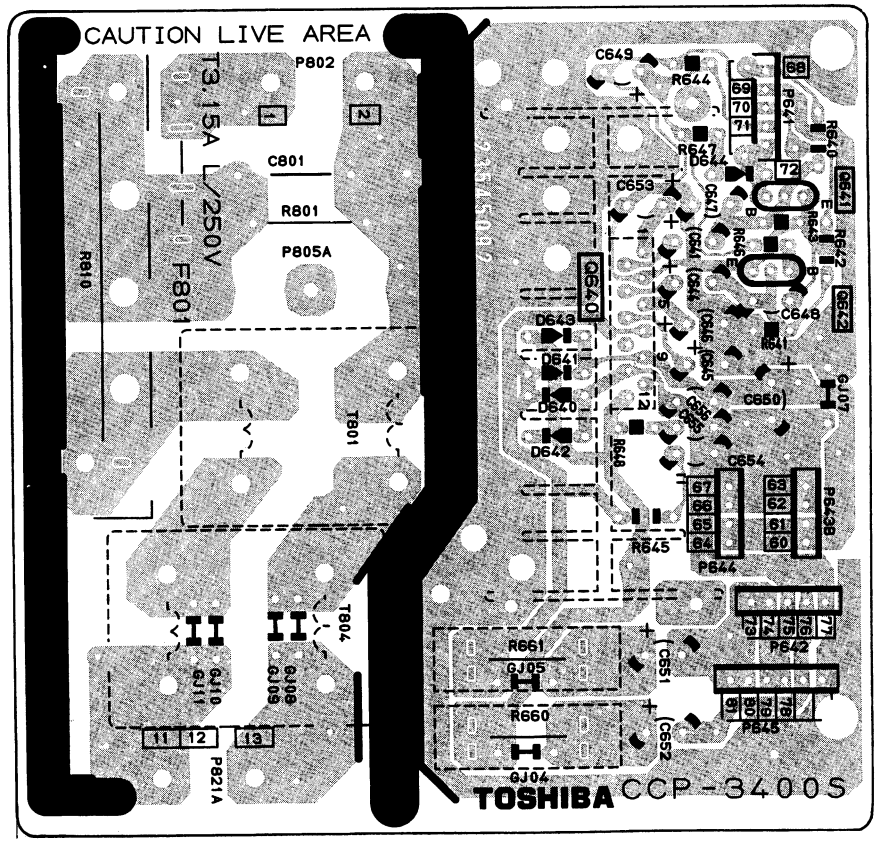
CRT. DRIVE/DSM BOARD PB6510X-1

BOTTOM (FOIL) SIDE



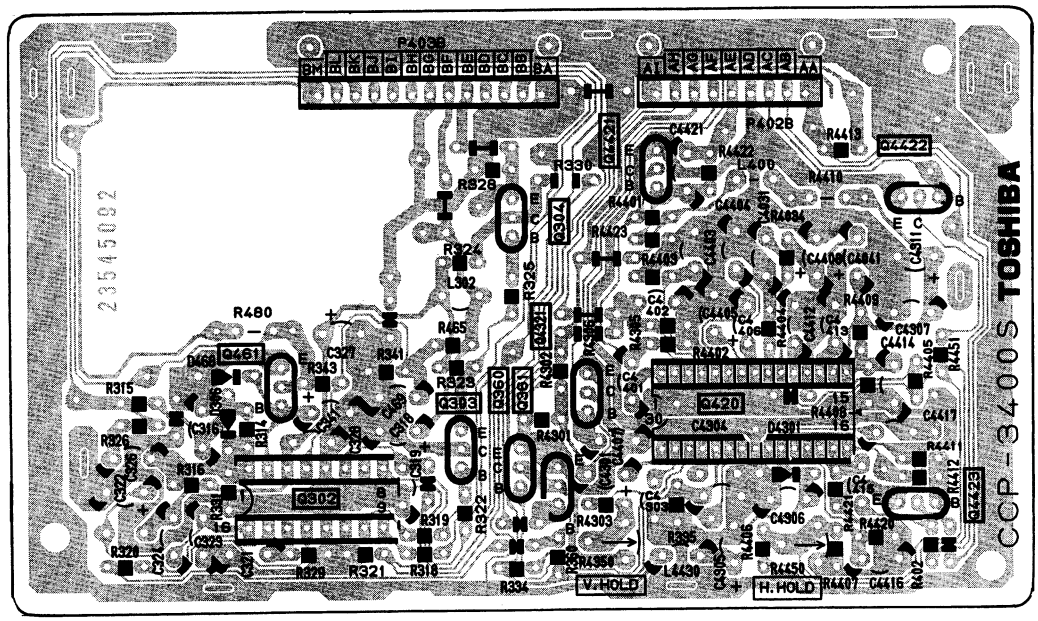
AC-IN BOARD PB6510X-2

BOTTOM (FOIL) SIDE



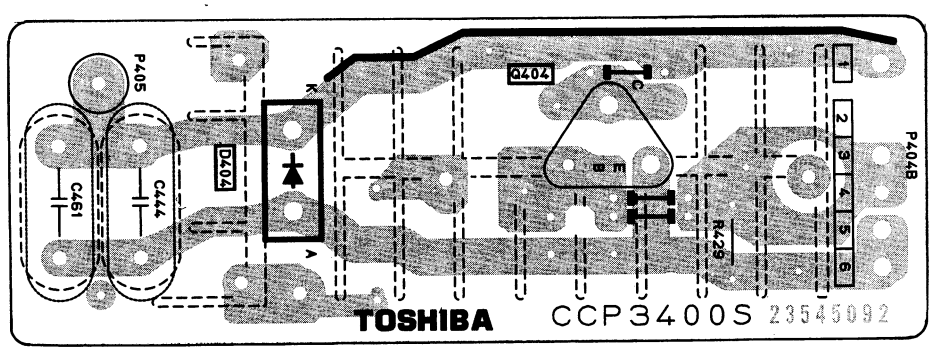
E/W BOARD PB6510X-3

BOTTOM (FOIL) SIDE



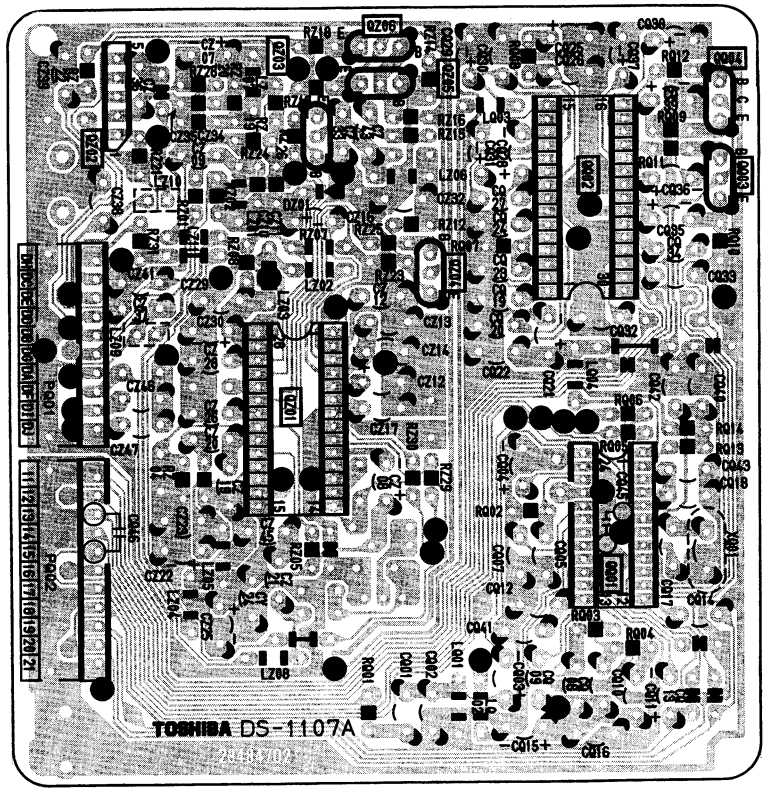
H.OUT BOARD PB6510X-4

BOTTOM (FOIL) SIDE



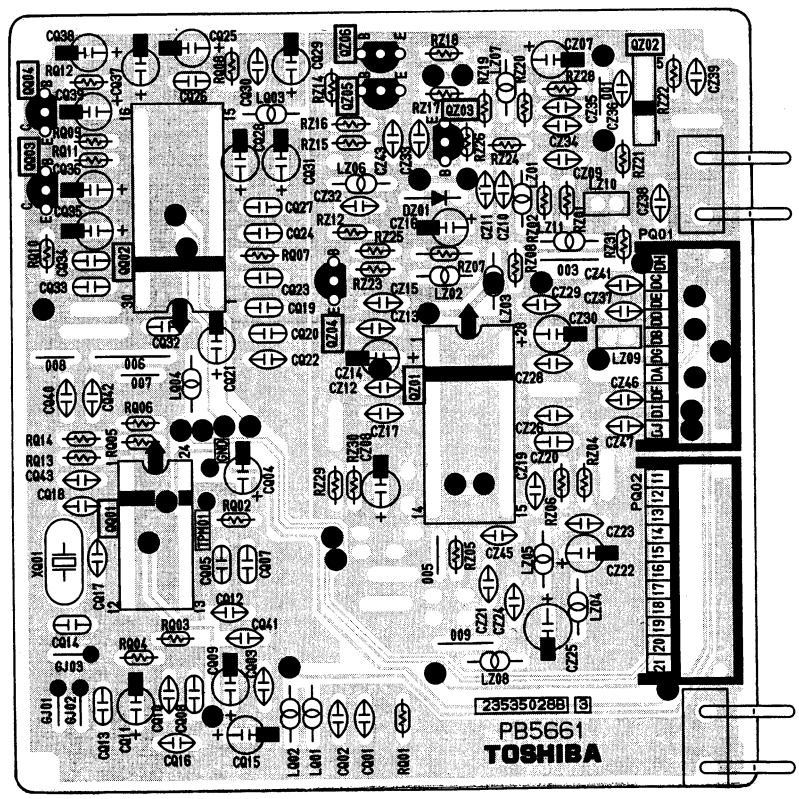
COMB/SECAM BOARD PB5661X

BOTTOM (FOIL) SIDE



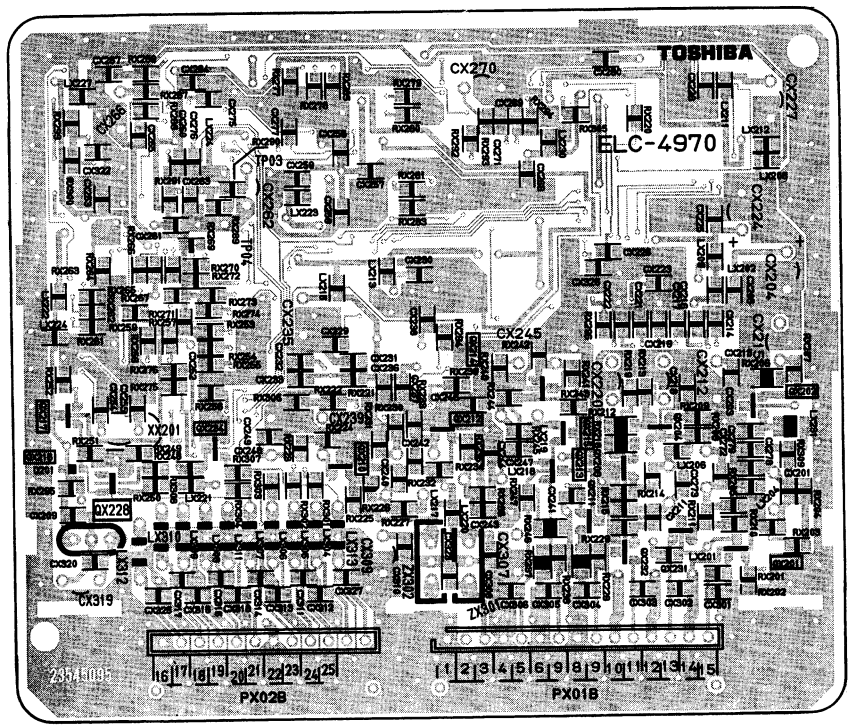
COMB/SECAM BOARD PB5661X

TOP (PARTS) SIDE



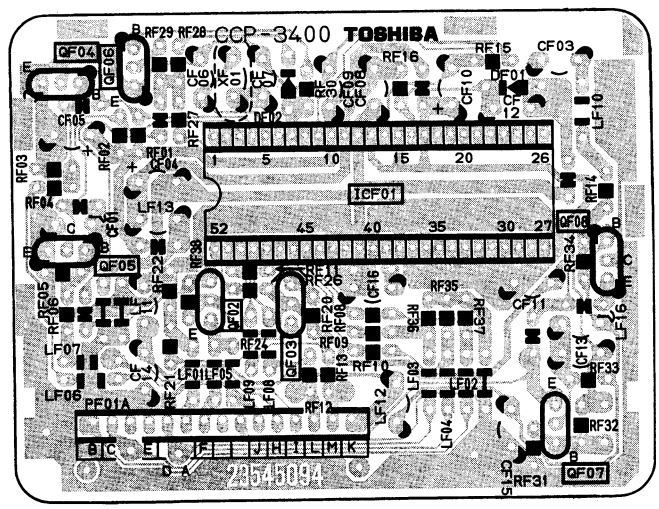
UP-CONVERTER BOARD PB6514X

BOTTOM (FOIL) SIDE



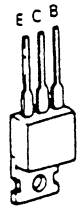
TEXT BOARD PB6513X

BOTTOM (FOIL) SIDE

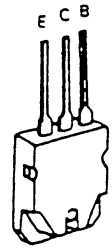


VEDUTA TERMINALI DEI TRANSISTORI

① 2SC1569

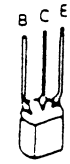


② 2SC3927(A)

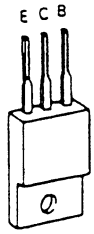


③ 2SC2580-C
2SC2655

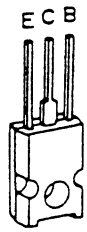
④ 2SA933S
2SA1015-Y
2SA1320-Y
2SC752GTM
2SC1685-Q
2SC1740S
2SC1815-N
2SC1959-Y
2SC2120-Y
2SC2878-A



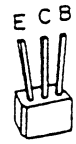
⑤ 2SB1186A
2SC3852
2SD2253



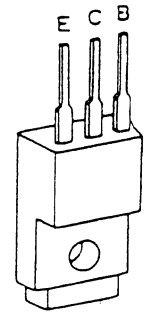
⑥ 2SC3619



⑦ RN1203
RN1204
RN1206
RN2004



⑧ 2SB1186A
2SD1763A



SPECIFICATIONS

Input Power Rating:	150 Watts (Normal), , AC 220 ~ 240 Volts, 50 Hz
Aerial Input Impedance:	75 ohm unbalanced type for VHF, UHF and CATV
Receiving Channels:	PAL B/G Standard, SECAM B/G Standard: VHF ..... channels 2 to 4, 5 to 12 UHF ..... channels 21 to 69 CATV ..... S1 to S41 PAL D/K, SECAM D/K Standard: VHF ..... channels 1 to 12 UHF ..... channels 21 to 69 PAL, SECAM 50 Hz/60 Hz (For Video Disk playback) 4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)
Intermediate Frequencies:	Picture I-F carrier frequency ..... 38.9 MHz (L VL) Sound I-F carrier frequency L System ..... 32.4 MHz (L VH, U)/40.97 MHz (L VL) B/G System ..... 33.4 MHz D/K System ..... 32.4 MHz
Picture Tube:	28 inches, A66EAK252X54, 660 mm (measured on diagonal of viewable picturearea) 110° deflection
Sound Output:	10 W + 10W (at 10% Distortion, Main) 13W (at 10% Distortion, Woofer)
Speakers:	60 mm x 120 mm oval, 2 pcs (Main) 100 mm, round, 1 pc (Woofer)
Aux. Terminals:	21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).
Cabinet:	Table type
Dimensions:	Height ..... 569 mm Width ..... 760 mm Depth ..... 480 mm
Mass:	36.3 kg

Specifications are subject to change without notice.

SCHEMATIC DIAGRAM MODEL: 2866DD (1/4)

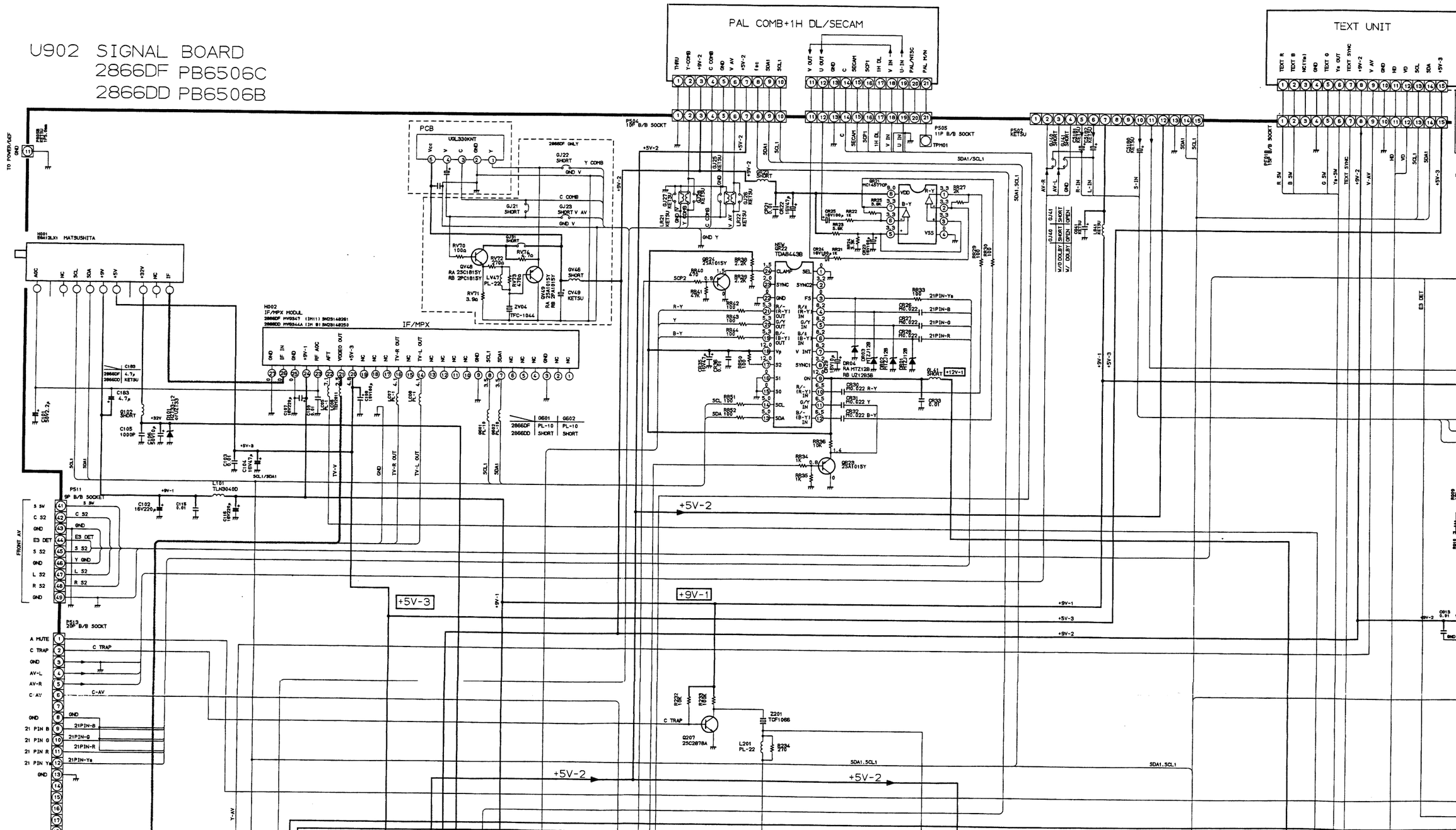
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principa
   gram. These are measured for separ
2. The circuits are subject to change w
3. ● : Solder links.



assis ground, line voltage 220
ry ±20%.
scope and a low capacity probe.
signal.
rols are in mid position and
ion. Set other controls for best

NOTES:

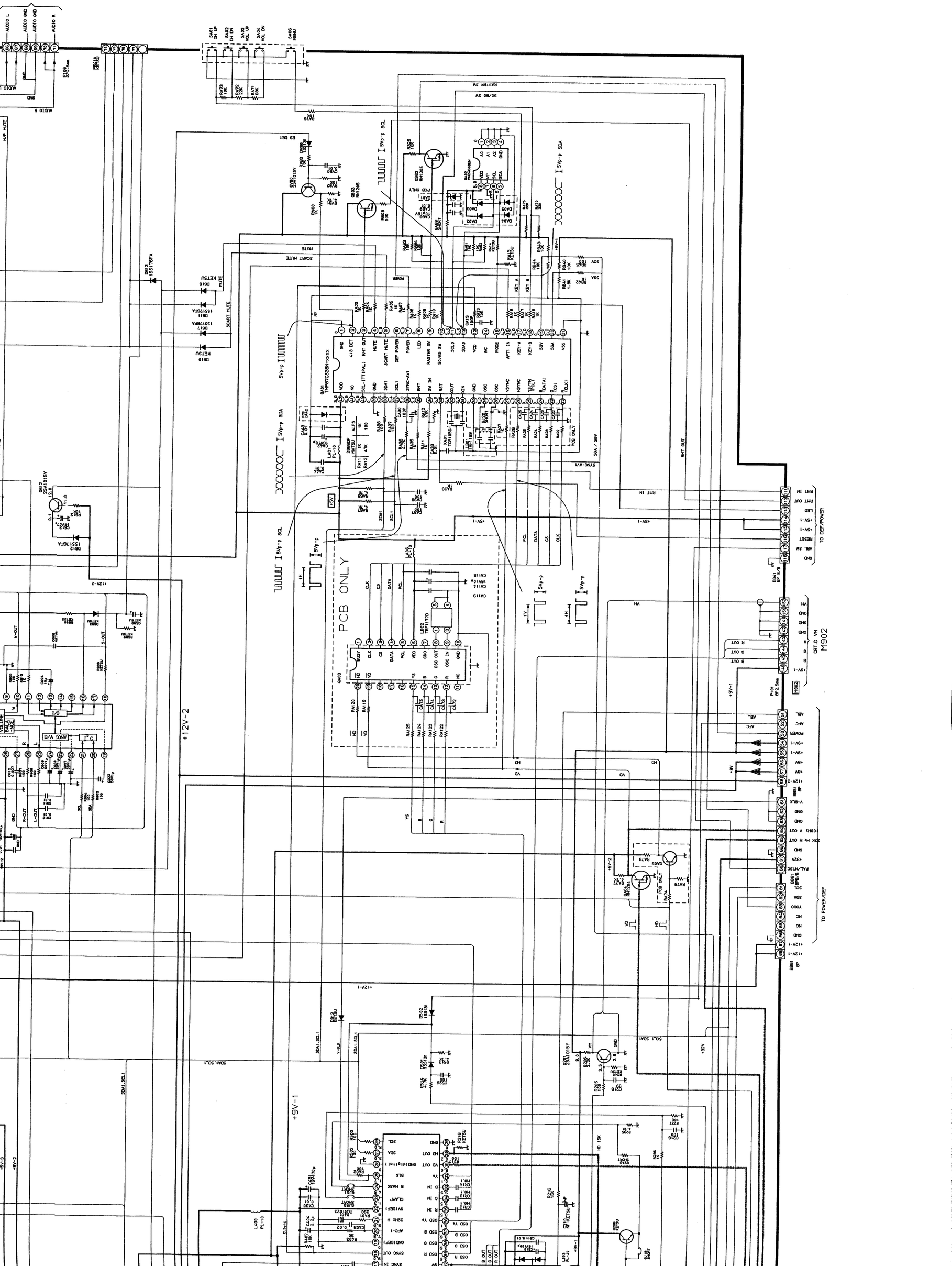
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ● : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

	2866DF	2866DD
H002	MV0347	MV0544A
Q601	PL-10	SHORT
Q602	PL-10	SHORT
C183	4.7μ	KETSU
QV48	2SC1815Y	KETSU
QV49	2SA1015Y	KETSU
CV49	KETSU	KETSU
LV47	PL-22	KETSU
RV70	1/6R 100	KETSU
RV71	1/6R 3.9K	KETSU
RV72	1/6R 270	KETSU
RV73	1/6R 470	KETSU
RV74	1/6R 4.7K	KETSU
ZV04	TCF1044	KETSU
QV45	SHORT	KETSU
QJ21	SHORT	KETSU
QJ22	SHORT	KETSU
QJ23	SHORT	KETSU
QJ31	SHORT	KETSU
LR21	KETSU	KETSU
QJ27	KETSU	SHORT
QJ28	KETSU	SHORT
LR22	KETSU	KETSU
QJ25	KETSU	SHORT
QJ26	KETSU	SHORT


TO BACK AV
AUDIO L
AUDIO GND
AUDIO GND
AUDIO R
SA01 CH UP
SA02 CH DN
SA03 VOL UP
SA04 VOL DN
SA06 MENU
50/60 SW
RASTER SW
EB DET
SCART MUTE
MUTE
POWER
KEY-A
KEY-B
SDA
SCL
SVp-p SCL
SVp-p SDA
PCB ONLY
+5V
+12V-2
+9V-1
+32V
SDA1.SCL1
SYNC-AVI
RMT OUT
RMT IN
TO DEF/POWER
TO POWER/DEF
CRT.D VM
M902
VM
VD
HD
YS
PCL
DATA
CS
CLK
D/A CONV
I/O
VOLUME
TONE
L-OUT
R-OUT
S-OUT
V-OUT
C-Sync
LED
RESET
ABL SW
ABL
AFC
POWER
100HZ V OUT
32K HZ H OUT
PAL/NTSC
SCL SDA1
TUNER
M5
M6
YOKO
B OUT
G OUT
R OUT
BLK
B MASK
CLAMP
32HZ H
AFC-1
SYNC OUT
SYNC IN
OSD R
OSD G
OSD B
OSD Y
OSD V
OSD H
OSD B IN
OSD G IN
OSD R IN
OSD Y IN
HD OUT
VD OUT
SCL
SDA
SVIDEO1
GND(DET)
GND(DET)
SVIDEO2
GND(DET)
GND(DET)
SVIDEO3
GND(DET)
GND(DET)
SVIDEO4
GND(DET)
GND(DET)
AUDIO L
AUDIO R
GND
GND
GND

UP CONVERTER UNIT

TO POWER/DEF

PCB
D215 KETSU 155131
D216 KETSU 155131
D217 KETSU 155131
D218 KETSU 155131
D219 KETSU 155131
D220 KETSU 155131

PCB ONLY

SCHEMATIC DIAGRAM MODEL: 2866DD (2/4)

NOT USE
2866DF/2866DD

1198

U905B AC IN/PRO OUT BOARD
2866DF PB6510X-2
2866DD PB6510X-2

*:No.1199

U905C E/W BOARD
2866DF PB6510X-3
2866DD PB6510X-3

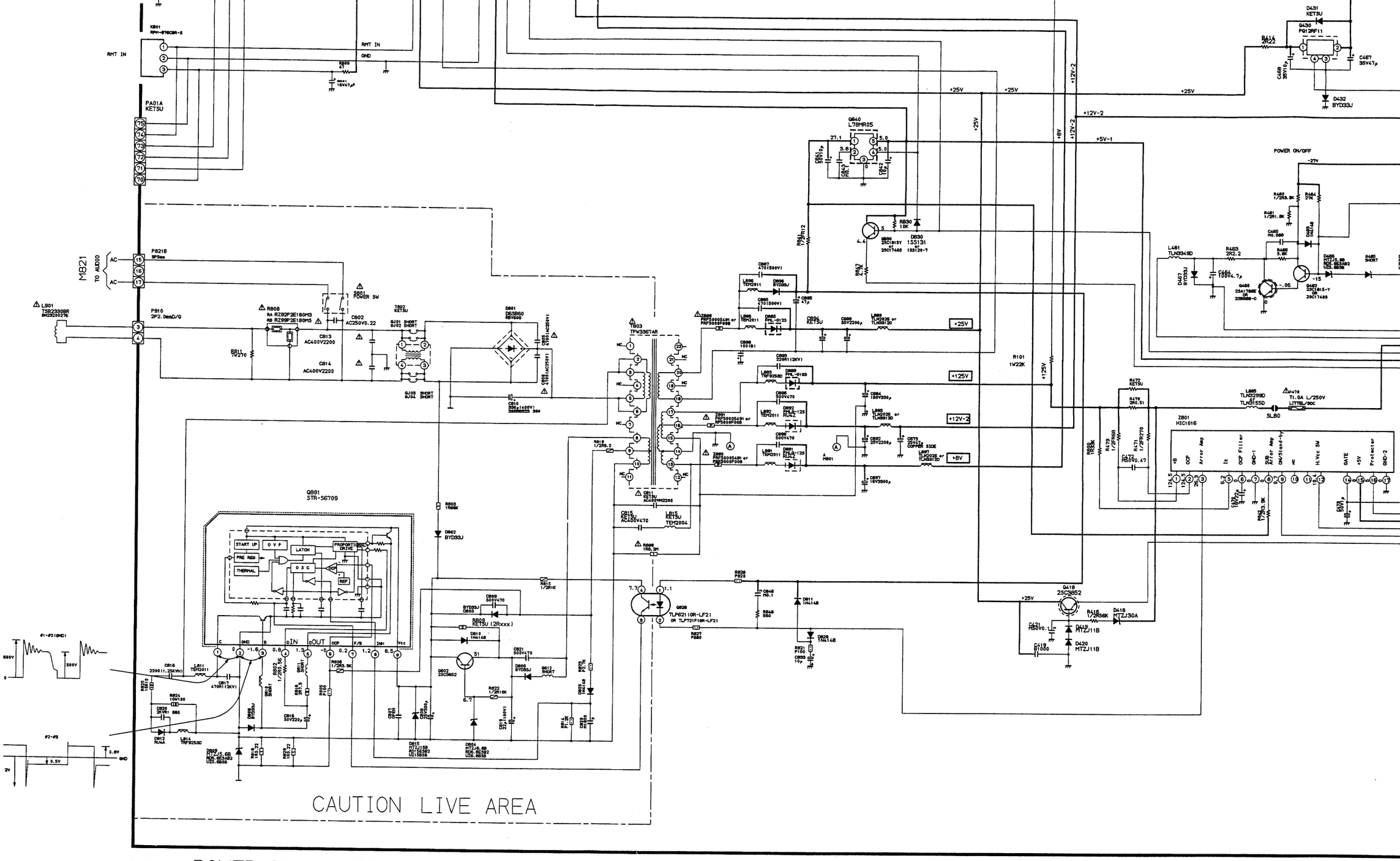
M903

H.PHASE
H.HOLD
V.HOLD
Q420 LA7850
Q421 RN1204
Q422 KETSU
Q430 PQ12RF11
Q301 LA7845N
Q302 TA8859CP
Q360 RN1204
Q361 RN1204
Q420 2SC3832 OR 2SD1944H
Q421 2SC1815Y
Q422 2SC1815Y
Q427 2SC1815Y
Q428 2SA1015Y
Q429 2SC1815Y
Q430 2SA1015Y
Q431 2SC1815Y
D431 KETSU
D432 BYD33J
D441 MTZJ9.1B UZ9.1BSB
D491 TVR-1B
D492 TVR-1B
D493 TVR-1B
D494 TVR-1B
D495 TVR-1B
D496 TVR-1B
D497 TVR-1B
D498 MTZJ12A
D499 MTZJ12A
D501 MTZJ7.5A UZ7.5BSA
D502 MTZJ7.5A UZ7.5BSA
D503 MTZJ7.5A UZ7.5BSA
D504 MTZJ7.5A UZ7.5BSA
D505 MTZJ7.5A UZ7.5BSA
D506 1N4148
D507 1N4148
D508 1N4148
D509 1N4148
D510 1N4148
D511 1N4148
D512 1N4148
D513 1N4148
D514 1N4148
D515 1N4148
D516 1N4148
D517 1N4148
D518 1N4148
D519 1N4148
D520 1N4148
D521 1N4148
D522 1N4148
D523 1N4148
D524 1N4148
D525 1N4148
D526 1N4148
D527 1N4148
D528 1N4148
D529 1N4148
D530 1N4148
D531 1N4148
D532 1N4148
D533 1N4148
D534 1N4148
D535 1N4148
D536 1N4148
D537 1N4148
D538 1N4148
D539 1N4148
D540 1N4148
D541 1N4148
D542 1N4148
D543 1N4148
D544 1N4148
D545 1N4148
D546 1N4148
D547 1N4148
D548 1N4148
D549 1N4148
D550 1N4148
D551 1N4148
D552 1N4148
D553 1N4148
D554 1N4148
D555 1N4148
D556 1N4148
D557 1N4148
D558 1N4148
D559 1N4148
D560 1N4148
D561 1N4148
D562 1N4148
D563 1N4148
D564 1N4148
D565 1N4148
D566 1N4148
D567 1N4148
D568 1N4148
D569 1N4148
D570 1N4148
D571 1N4148
D572 1N4148
D573 1N4148
D574 1N4148
D575 1N4148
D576 1N4148
D577 1N4148
D578 1N4148
D579 1N4148
D580 1N4148
D581 1N4148
D582 1N4148
D583 1N4148
D584 1N4148
D585 1N4148
D586 1N4148
D587 1N4148
D588 1N4148
D589 1N4148
D590 1N4148
D591 1N4148
D592 1N4148
D593 1N4148
D594 1N4148
D595 1N4148
D596 1N4148
D597 1N4148
D598 1N4148
D599 1N4148
D600 1N4148
D601 1N4148
D602 1N4148
D603 1N4148
D604 1N4148
D605 1N4148
D606 1N4148
D607 1N4148
D608 1N4148
D609 1N4148
D610 1N4148
D611 1N4148
D612 1N4148
D613 1N4148
D614 1N4148
D615 1N4148
D616 1N4148
D617 1N4148
D618 1N4148
D619 1N4148
D620 1N4148
D621 1N4148
D622 1N4148
D623 1N4148
D624 1N4148
D625 1N4148
D626 1N4148
D627 1N4148
D628 1N4148
D629 1N4148
D630 1N4148
D631 1N4148
D632 1N4148
D633 1N4148
D634 1N4148
D635 1N4148
D636 1N4148
D637 1N4148
D638 1N4148
D639 1N4148
D640 1N4148
D641 1N4148
D642 1N4148
D643 1N4148
D644 1N4148
D645 1N4148
D646 1N4148
D647 1N4148
D648 1N4148
D649 1N4148
D650 1N4148
D651 1N4148
D652 1N4148
D653 1N4148
D654 1N4148
D655 1N4148
D656 1N4148
D657 1N4148
D658 1N4148
D659 1N4148
D660 1N4148
D661 1N4148
D662 1N4148
D663 1N4148
D664 1N4148
D665 1N4148
D666 1N4148
D667 1N4148
D668 1N4148
D669 1N4148
D670 1N4148
D671 1N4148
D672 1N4148
D673 1N4148
D674 1N4148
D675 1N4148
D676 1N4148
D677 1N4148
D678 1N4148
D679 1N4148
D680 1N4148
D681 1N4148
D682 1N4148
D683 1N4148
D684 1N4148
D685 1N4148
D686 1N4148
D687 1N4148
D688 1N4148
D689 1N4148
D690 1N4148
D691 1N4148
D692 1N4148
D693 1N4148
D694 1N4148
D695 1N4148
D696 1N4148
D697 1N4148
D698 1N4148
D699 1N4148
D700 1N4148
D701 1N4148
D702 1N4148
D703 1N4148
D704 1N4148
D705 1N4148
D706 1N4148
D707 1N4148
D708 1N4148
D709 1N4148
D710 1N4148
D711 1N4148
D712 1N4148
D713 1N4148
D714 1N4148
D715 1N4148
D716 1N4148
D717 1N4148
D718 1N4148
D719 1N4148
D720 1N4148
D721 1N4148
D722 1N4148
D723 1N4148
D724 1N4148
D725 1N4148
D726 1N4148
D727 1N4148
D728 1N4148
D729 1N4148
D730 1N4148
D731 1N4148
D732 1N4148
D733 1N4148
D734 1N4148
D735 1N4148
D736 1N4148
D737 1N4148
D738 1N4148
D739 1N4148
D740 1N4148
D741 1N4148
D742 1N4148
D743 1N4148
D744 1N4148
D745 1N4148
D746 1N4148
D747 1N4148
D748 1N4148
D749 1N4148
D750 1N4148
D751 1N4148
D752 1N4148
D753 1N4148
D754 1N4148
D755 1N4148
D756 1N4148
D757 1N4148
D758 1N4148
D759 1N4148
D760 1N4148
D761 1N4148
D762 1N4148
D763 1N4148
D764 1N4148
D765 1N4148
D766 1N4148
D767 1N4148
D768 1N4148
D769 1N4148
D770 1N4148
D771 1N4148
D772 1N4148
D773 1N4148
D774 1N4148
D775 1N4148
D776 1N4148
D777 1N4148
D778 1N4148
D779 1N4148
D780 1N4148
D781 1N4148
D782 1N4148
D783 1N4148
D784 1N4148
D785 1N4148
D786 1N4148
D787 1N4148
D788 1N4148
D789 1N4148
D790 1N4148
D791 1N4148
D792 1N4148
D793 1N4148
D794 1N4148
D795 1N4148
D796 1N4148
D797 1N4148
D798 1N4148
D799 1N4148
D800 1N4148
D801 1N4148
D802 1N4148
D803 1N4148
D804 1N4148
D805 1N4148
D806 1N4148
D807 1N4148
D808 1N4148
D809 1N4148
D810 1N4148
D811 1N4148
D812 1N4148
D813 1N4148
D814 1N4148
D815 1N4148
D816 1N4148
D817 1N4148
D818 1N4148
D819 1N4148
D820 1N4148
D821 1N4148
D822 1N4148
D823 1N4148
D824 1N4148
D825 1N4148
D826 1N4148
D827 1N4148
D828 1N4148
D829 1N4148
D830 1N4148
D831 1N4148
D832 1N4148
D833 1N4148
D834 1N4148
D835 1N4148
D836 1N4148
D837 1N4148
D838 1N4148
D839 1N4148
D840 1N4148
D841 1N4148
D842 1N4148
D843 1N4148
D844 1N4148
D845 1N4148
D846 1N4148
D847 1N4148
D848 1N4148
D849 1N4148
D850 1N4148
D851 1N4148
D852 1N4148
D853 1N4148
D854 1N4148
D855 1N4148
D856 1N4148
D857 1N4148
D858 1N4148
D859 1N4148
D860 1N4148
D861 1N4148
D862 1N4148
D863 1N4148
D864 1N4148
D865 1N4148
D866 1N4148
D867 1N4148
D868 1N4148
D869 1N4148
D870 1N4148
D871 1N4148
D872 1N4148
D873 1N4148
D874 1N4148
D875 1N4148
D876 1N4148
D877 1N4148
D878 1N4148
D879 1N4148
D880 1N4148
D881 1N4148
D882 1N4148
D883 1N4148
D884 1N4148
D885 1N4148
D886 1N4148
D887 1N4148
D888 1N4148
D889 1N4148
D890 1N4148
D891 1N4148
D892 1N4148
D893 1N4148
D894 1N4148
D895 1N4148
D896 1N4148
D897 1N4148
D898 1N4148
D899 1N4148
D900 1N4148
D901 1N4148
D902 1N4148
D903 1N4148
D904 1N4148
D905 1N4148
D906 1N4148
D907 1N4148
D908 1N4148
D909 1N4148
D910 1N4148
D911 1N4148
D912 1N4148
D913 1N4148
D914 1N4148
D915 1N4148
D916 1N4148
D917 1N4148
D918 1N4148
D919 1N4148
D920 1N4148
D921 1N4148
D922 1N4148
D923 1N4148
D924 1N4148
D925 1N4148
D926 1N4148
D927 1N4148
D928 1N4148
D929 1N4148
D930 1N4148
D931 1N4148
D932 1N4148
D933 1N4148
D934 1N4148
D935 1N4148
D936 1N4148
D937 1N4148
D938 1N4148
D939 1N4148
D940 1N4148
D941 1N4148
D942 1N4148
D943 1N4148
D944 1N4148
D945 1N4148
D946 1N4148
D947 1N4148
D948 1N4148
D949 1N4148
D950 1N4148
D951 1N4148
D952 1N4148
D953 1N4148
D954 1N4148
D955 1N4148
D956 1N4148
D957 1N4148
D958 1N4148
D959 1N4148
D960 1N4148
D961 1N4148
D962 1N4148
D963 1N4148
D964 1N4148
D965 1N4148
D966 1N4148
D967 1N4148
D968 1N4148
D969 1N4148
D970 1N4148
D971 1N4148
D972 1N4148
D973 1N4148
D974 1N4148
D975 1N4148
D976 1N4148
D977 1N4148
D978 1N4148
D979 1N4148
D980 1N4148
D981 1N4148
D982 1N4148
D983 1N4148
D984 1N4148
D985 1N4148
D986 1N4148
D987 1N4148
D988 1N4148
D989 1N4148
D990 1N4148
D991 1N4148
D992 1N4148
D993 1N4148
D994 1N4148
D995 1N4148
D996 1N4148
D997 1N4148
D998 1N4148
D999 1N4148
D1000 1N4148

P402B 9P B/B
P402A 9P B/B
P403B 13P B/B
P403A 13P B/B
P904 8P/2.5mm

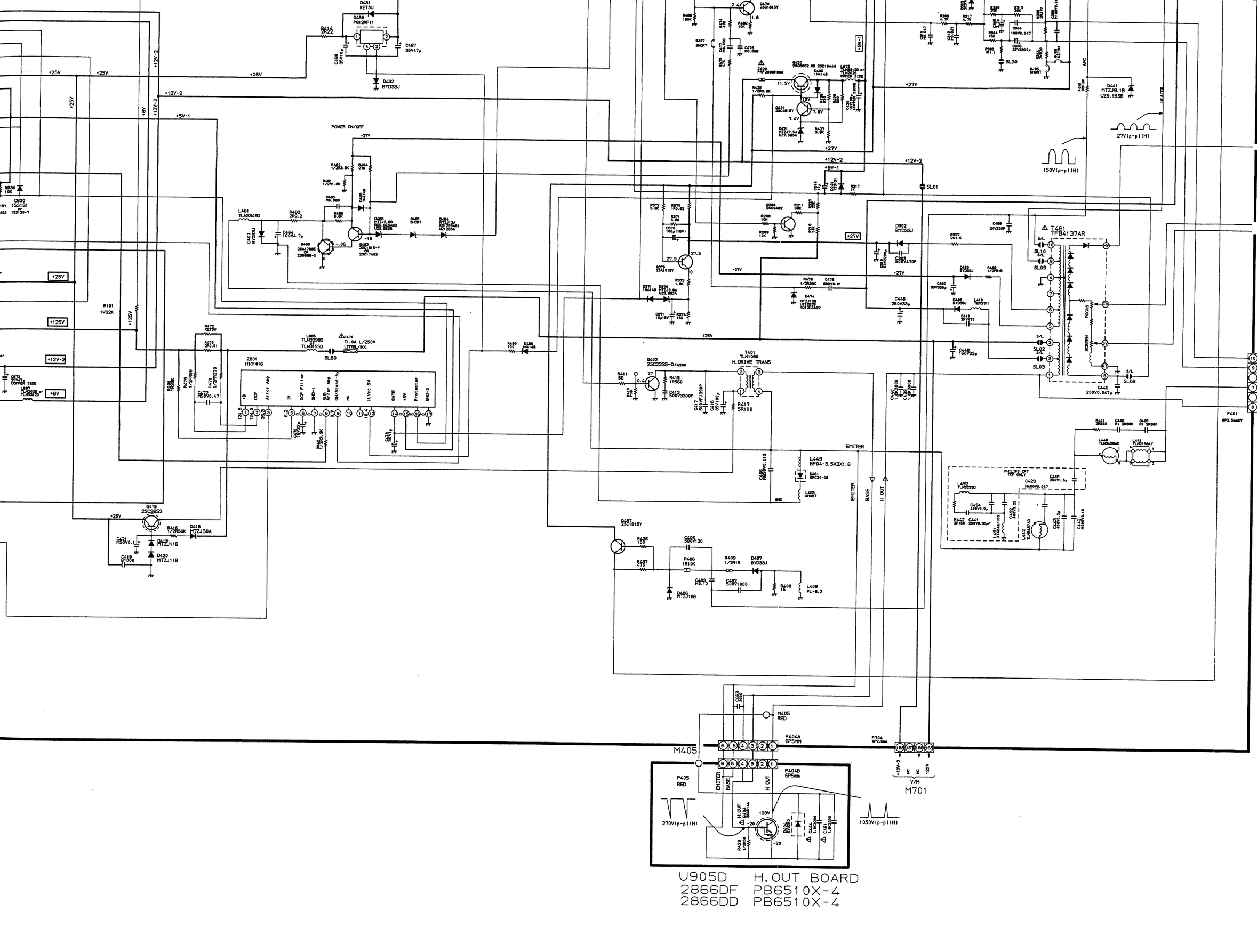
3.5V(p-p)(V)
1.2V(p-p)(V)
50V(p-p)(V)
1.3V(p-p)(V)
27V(p-p)(H)
150V(p-p)(H)

+12-1
+25V
+12V-2
+8V
+5V-1
+9V-1
+27V
+200V
-27V
POWER ON/OFF
AFC
HEATER
EHT
V BLK
TO CRT D/H



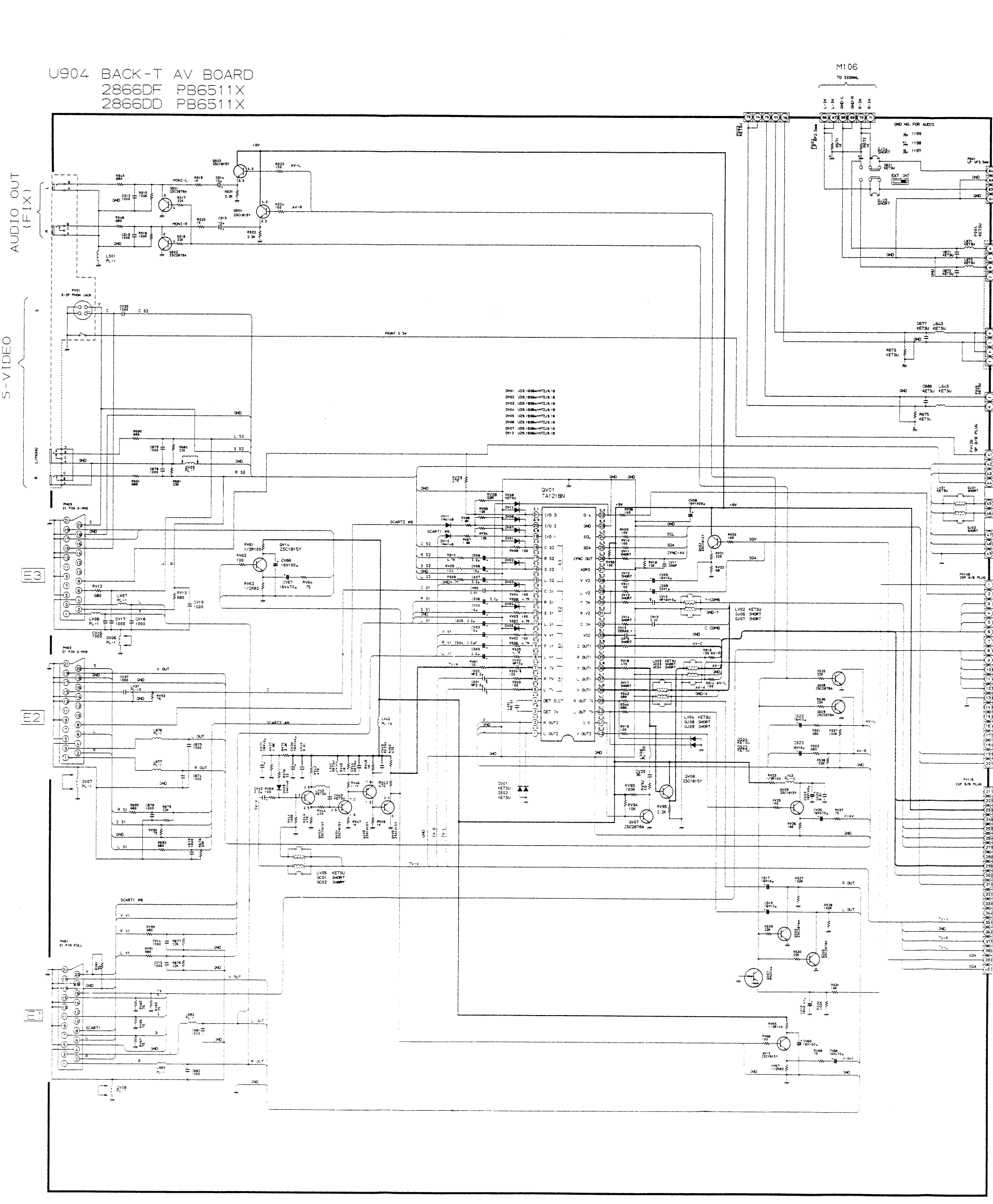
U903 POWER/DEF BOARD

2866DF PB6509X
2866DD PB6509X

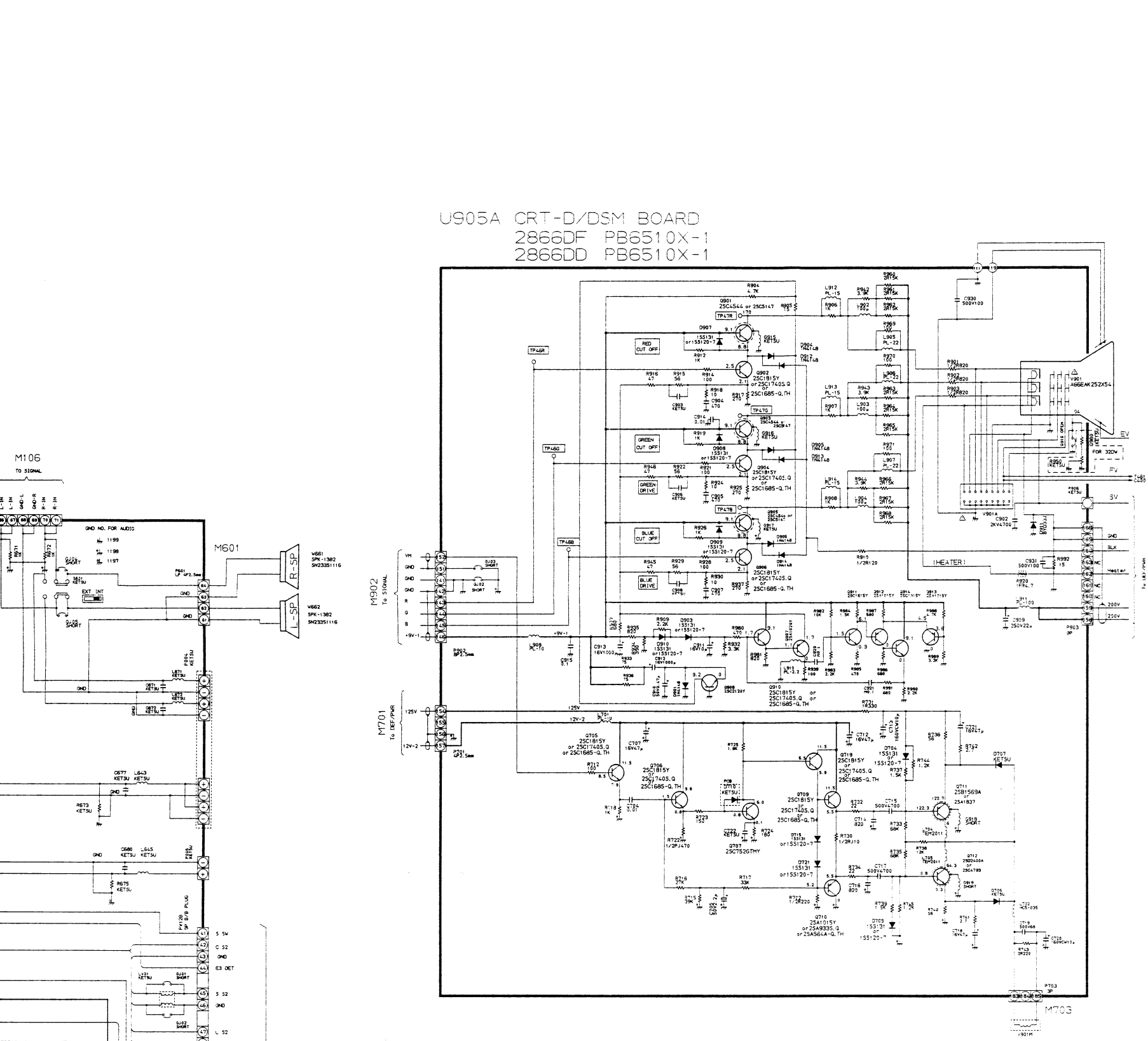


U905D H.OUT BOARD
2866DF PB6510X-4
2866DD PB6510X-4

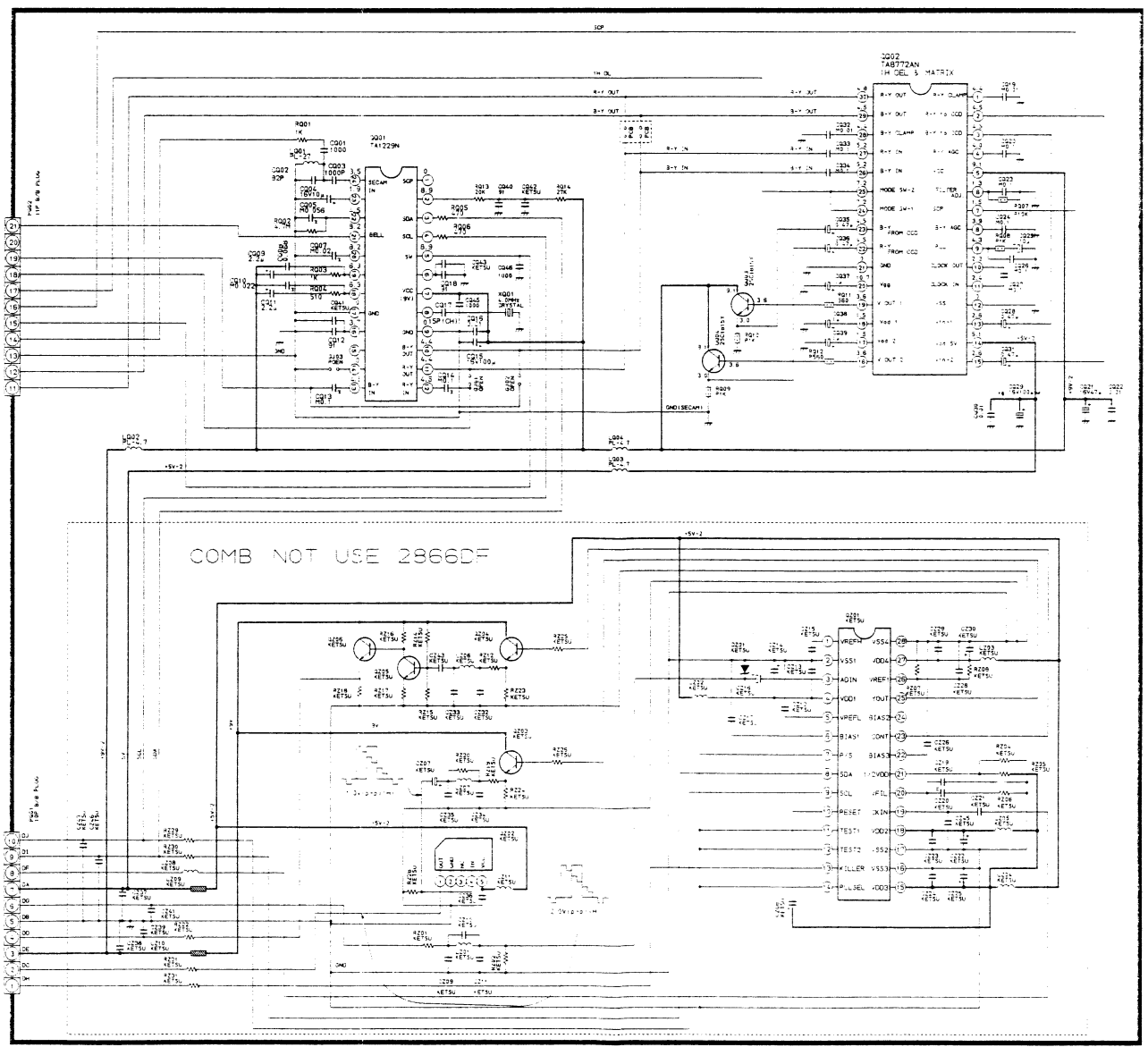
SCHEMATIC DIAGRAM MODEL: 2866DD (3/4)



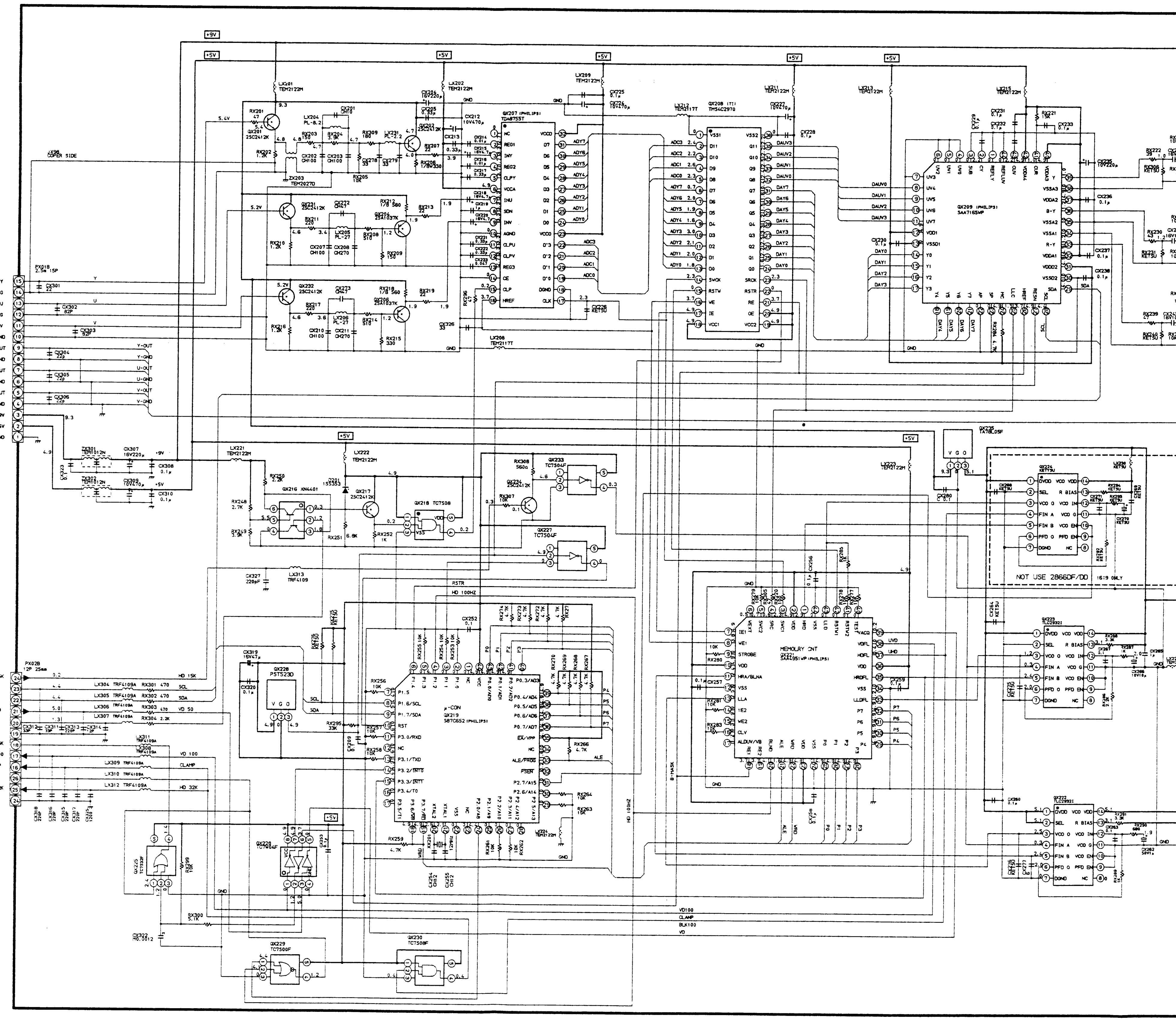
U905A CRT-D/DSM BOARD
2866DF PB6510X-1
2866DD PB6510X-1

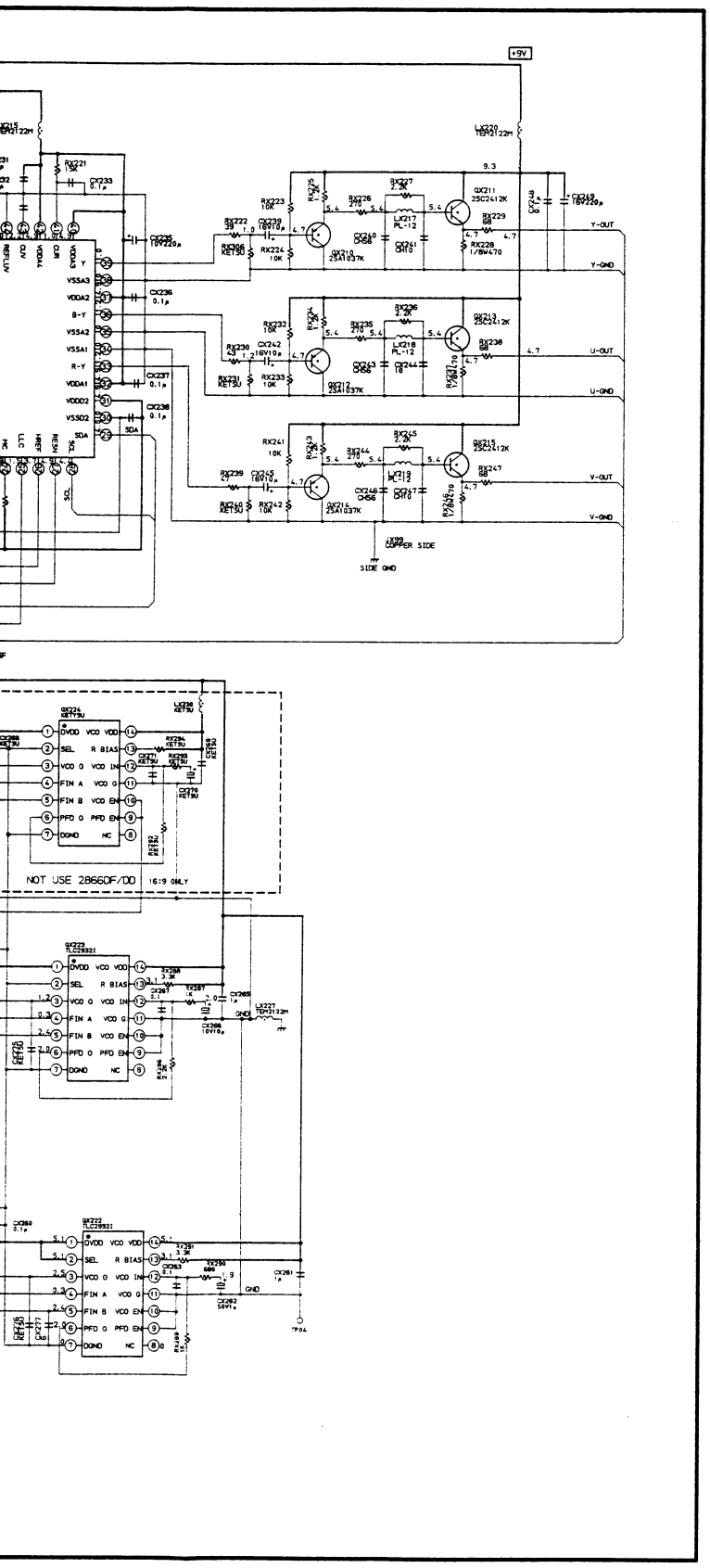
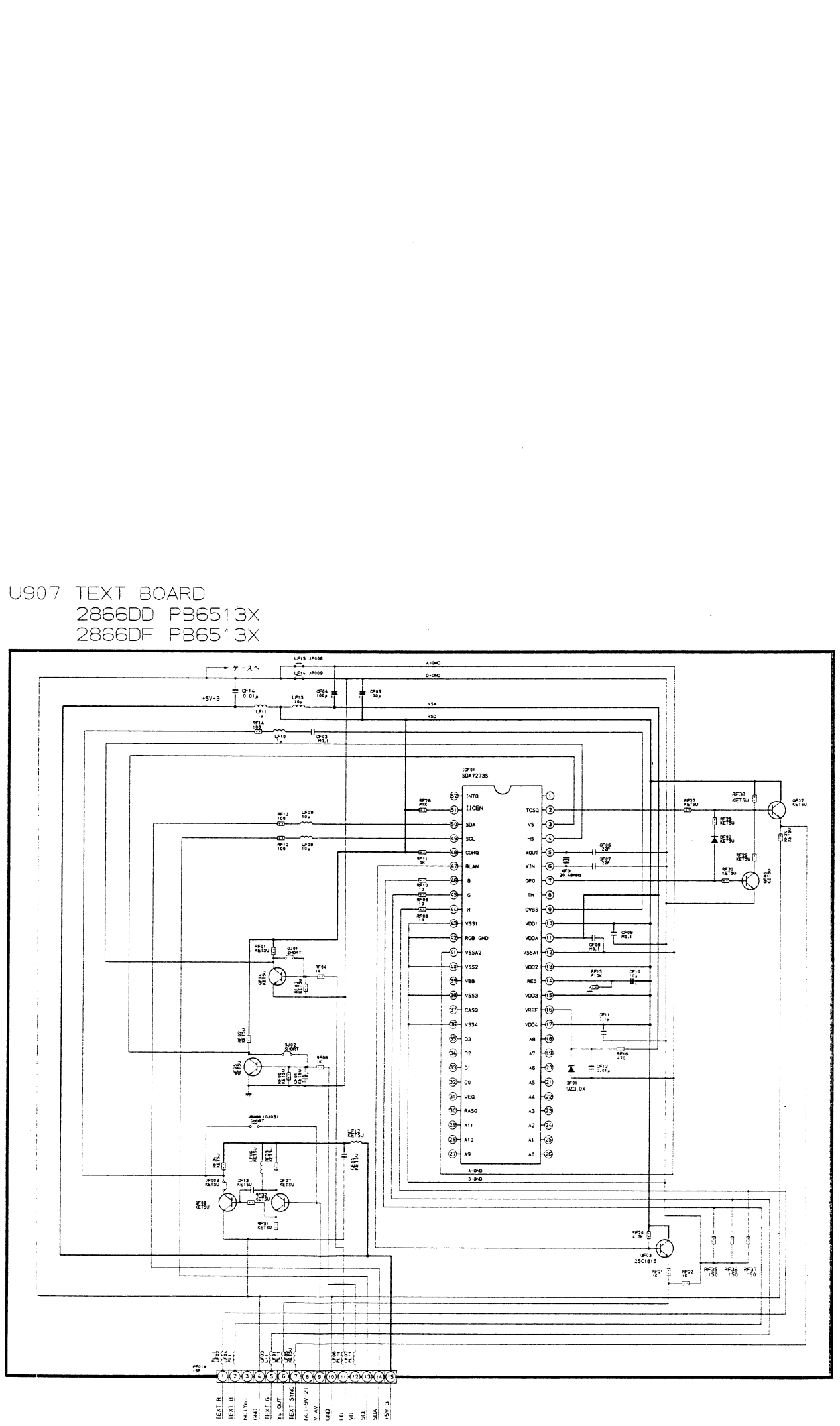


2866DF
U906 1H DL/SECAM BOARD 5661C



SCHEMATIC DIAGRAM MODEL: 2866DD (4/4)



U908 UP CONVERTER BOARD
2866DF PB6514X
2866DD PB6514X

U907 TEXT BOARD
2866DD PB6513X
2866DF PB6513X